GRAPHIC SCALES: 1/16" = 1'-0" (0, 5', 50') · 1/8" = 1'-0" (0, 5', 25') · 1/4" = 1'-0" (0, 1', 12') · 1/2" = 1'-0" (0, 1', 6') · 3/4" = 1'-0" (0, 4') · 1" = 1'-0" (0, 1', 3') · 1 1/2" = 1'-0" (0, 2') · 3" = 1'-0" (0, 1")

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

UC DAVIS HEALTH
UNIVERSITY OF CALIFORNIA DAVIS MEDICAL CENTER
4840 2ND AVE SACRAMENTO, CA 95817
PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS

ABBREVIATIONS

&	AND	S	SOUTH
@	AT	SC	SOLID CORE
C	CENTERLINE	SCD	SEE CIVIL DRAWINGS
Ø	DIAMETER	SCHED	SCHEDULE
#	POUND OR NUMBER	SD	SOAP DISPENSER
		SED	SEE ELECTRICAL DRAWINGS
A/C	AIR CONDITIONING	SF	SQUARE FEET
AC	ASPHALTIC CONCRETE	SFPD	SEE FIRE PROTECTION DRAWINGS
ACOUS	ACOUSTICAL	SHT	SHEET
ACT	ACOUSTIC CEILING TILE	SIM	SIMILAR
ADD	ADDITIONAL	SLD	SEE LANDSCAPE DRAWINGS
ADJ	ADJACENT	SMD	SEE MECHANICAL DRAWINGS
AFF	ABOVE FINISHED FLOOR	SMS	SHEET METAL SCREW
ALT	ALTERNATE	SND	SANITARY NAPKIN DISPENSER
ALUM	ALUMINUM	SPD	SEE PLUMBING DRAWINGS
ANOD	ANODIZED	SPEC	SPECIFICATION
APPROX	APPROXIMATE	SQ	SQUARE
ARCH	ARCHITECTURAL	SS	STAINLESS STEEL
		SSD	SEE STRUCTURAL DRAWINGS
BITUM	BITUMINOUS	STD	STANDARD
BD	BOARD	STL	STEEL
BLDG	BUILDING	STOR	STORAGE
BLKG	BLOCKING	STRUCT	STRUCTURAL
BOT	BOTTOM	SUSP	SUSPEND
BTWN	BETWEEN		
BUR	BUILT-UP ROOFING	TEL	TELEPHONE
		TEMP	TEMPORARY
CAB	CABINET	THK	THICK
CB	CATCH BASIN	T.O.	TOP OF
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	TOC	TOP OF CURB
		TOP	TOP OF PARAPET
CG	CORNER GUARD	TOS	TOP OF SLAB
CJ	CONTROL JOINT	TOW	TOP OF WALL
CLG	CEILING	TPD	TOILET PAPER DISPENSER
CLO	CLOSET	TV	TELEVISION
CLR	CLEAR	TYP	TYPICAL
CMU	CONCRETE MASONRY UNIT		
CO	CLEAN OUT	UON	UNLESS OTHERWISE NOTED
COL	COLUMN		
COMP	COMPOSITION	VCT	VINYL COMPOSITION TILE
CONC	CONCRETE	VERT	VERTICAL
CONST	CONSTRUCTION	VEST	VESTIBULE
CONT	CONTINUOUS	VIF	VERIFY IN FIELD
CORR	CORRIDOR		
CT	CERAMIC TILE	W	WEST
CUST	CUSTODIAN	W/	WITH
		W/O	WITHOUT
DBL	DOUBLE	WC	WATER CLOSET
DEMO	DEMOLITION	WD	WOOD
DEPT	DEPARTMENT	WH	WATER HEATER
DF	DRINKING FOUNTAIN		
DI	DRAIN OR DROP INLET		
DIA	DIAMETER		
DIAG	DIAGONAL		
DIM	DIMENSION		
DISP	DISPENSER		
DIV	DIVISION		
DN	DOWN		
DS	DOWNSPOUT		
DTL	DETAIL		
DW	DISHWASHER		
DWG	DRAWING		
(E)	EXISTING		
E	EAST		
EA	EACH		
EF	EXHAUST FAN		
EJ	EXPANSION JOINT		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
ENCL	ENCLOSURE		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EVA	EMERGENCY VEHICLE ACCESS		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPANSION		
EXT	EXTERIOR		
FA	FIRE ALARM		
FD	FLOOR DRAIN		
FE	FIRE EXTINGUISHER		
FEC	FIRE EXTINGUISHER CABINET		
FF	FINISH FLOOR		
FIN	FINISH		
FLR	FLOOR		
FO	FACE OF		
FOC	FACE OF CONCRETE		
FOF	FACE OF FINISH		
FOS	FACE OF STUD		
FRP	FIBERGLASS REINFORCED PANEL		
FT	FOOT OR FEET		
FTG	FOOTING		
GA	GAUGE		
GALV	GALVANIZED		
GB	GRAB BAR		
GSM	GALVANIZED WHEET METAL		
GYP	GYPSUM		
HB	HOSE BIB		
HC	HOLLOW CORE		
HD	HEAD		
HDWR	HARDWARE		
HM	HOLLOW METAL		
HORIZ	HORIZONTAL		
HR	HOUR		
HT	HEIGHT		
INFO	INFORMATION		
INSUL	INSULATION		
INT	INTERIOR		
JAN	JANITOR		
JT	JOINT		
LAB	LABORATORY		
LAM	LAMINATE		
LAV	LAVATORY		
LBS	POUNDS		
LT	LIGHT		
MAX	MAXIMUM		
MB	MACHINE BOLT		
MDF	MEDIUM DENSITY FIREBOARD		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MOD	MODULAR		
MTD	MOUNTED		
MTG	MOUNTING		
MTL	METAL		
MUL	MULLION		
(N)	NEW		
N/A	NOT APPLICABLE		
N	NORTH		
NIC	NOT IN CONTRACT		
NO OR #	NUMBER		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O/	OVER		
OC	ON CENTER		
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
OFOI	OWNER FURNISHED OWNER INSTALLED		
OPP	OPPOSITE		
PL	PLATE		
PLAM	PLASTIC LAMINATE		
PLAS	PLASTER		
PLYWD	PLYWOOD		
PR	PAIR		
PTD	PAPER TOWEL DISPENSER		
PVC	POLYVINYL CHLORIDE		
(R)	RELOCATE		
RB	RESILIENT OR RUBBER BASE		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFERENCE		
REFR	REFRIGERATOR		
REINF	REINFORCED		
REQ	REQUIRED		
RF	RESILIENT FLOORING		
RM	ROOM		
RO	ROUGH OPENING		
RWL	RAIN WATER LEADER		

SYMBOLS

- COLUMN LINE (A / 1)
- BUILDING ELEVATION — ELEVATION IDENTIFICATION (1 / A3.01); SHEET WHERE ELEVATION IS SHOWN
- BUILDING OR WALL SECTION — SECTION IDENTIFICATION (1 / A3.01); SHEET WHERE SECTION IS SHOWN
- DETAIL — DETAIL IDENTIFICATION (1 / A3.01); SHEET WHERE DETAIL IS SHOWN (- MEANS DETAIL SHOWN ON SAME SHEET)
- INTERIOR ELEVATION(S) — SHEET WHERE ELEVATION IS SHOWN (1 / A5.01); NO ARROWS MEAN ELEVATION NOT SHOWN (4); DETAIL NO. OF ELEVATION (3)
- WORK POINT, CONTROL POINT OR DATUM POINT
- REVISIONS — REVISION NUMBER (3)
- ROOM IDENTIFICATION (TYPE 1) — ROOM NAME (CORR CORRD); ROOM NUMBER (2088)
- ROOM IDENTIFICATION (TYPE 2) — ROOM NAME (CORR CORRD); ROOM NUMBER (2088); CEILING HEIGHT (OTHER THAN EXISTING OR 8'-0" A.F.F.) (9'-0")
- SHEETNOTE TAG (123) — REFER TO SHEETNOTE LIST LOCATED ON PLAN SHEETS
- AREA OF NO WORK
- DOOR SYMBOL — DOOR MARK (1 / 2); SEE DOOR SCHEDULE; HARDWARE GROUP; SEE FIN. HARDWARE SCHEDULE
- (E) DOOR TO REMAIN
- (E) DOOR TO BE REMOVED
- (N) DOOR & DOOR FRAME
- (E) 2 X 4 FLUORESCENT LIGHT FIXTURE, RECESSED
- (E) 1 X 4 FLUORESCENT LIGHT FIXTURE
- (RE) 1 X 4 FLUORESCENT LIGHT FIXTURE
- (N) 2 X 4 FLUORESCENT LIGHT FIXTURE, RECESSED
- (N) 4 FT. FLUORESCENT LIGHT FIXTURE, WALL MTD.
- (E) 2 X 2 FLUORESCENT LIGHT FIXTURE, RECESSED
- (N) 2 X 2 FLUORESCENT LIGHT FIXTURE, RECESSED
- (N) DOWNLIGHT, RECESSED
- (E) DOWNLIGHT, RECESSED
- (N) WALL WASHER, RECESSED
- (E) SMOKE DETECTOR TO REMAIN
- (N) OR RELOCATED (E) SMOKE DETECTOR
- (N) FIRE ALARM HEAT DETECTOR
- (E) SPEAKER TO REMAIN
- (N) SPEAKER
- (E) SPRINKLER HEAD TO REMAIN
- (RE) SPRINKLER HEAD, ADJUST HEIGHT AS NECESSARY
- (N) SPRINKLER HEAD
- (E) REGISTER (SUPPLY) TO REMAIN
- REGISTER (SUPPLY) - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- (E) GRILLE (RETURN) TO REMAIN
- GRILLE (RETURN) - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- (E) CEILING ACCESS PANEL (A.P.) TO REMAIN
- (RE) CEILING ACCESS PANEL
- (N) CEILING ACCESS PANEL
- (E) CEILING MOUNTED EXIT SIGN
- (E) WALL MOUNTED EXIT SIGN
- (E) LOW LEVEL WALL MOUNTED EXIT SIGN
- (N) CEILING MOUNTED EXIT SIGN
- (N) WALL MOUNTED EXIT SIGN
- (N) WALL SCONCE

NOTE: SOME OF THE ABOVE SYMBOLS MAY NOT HAVE BEEN USED FOR THIS PROJECT.

SUPPLEMENTAL NOTES

1. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
2. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER-FURNISH OPERATING EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
3. SCHEDULE ALL WORK WITH THE FACILITY ADMINISTRATOR INCLUDING CONSTRUCTION ACCESS AND STORAGE.
4. THE CONSTRUCTION SCHEDULE PROCEDURE SHALL BE APPROVED BY THE FACILITY ADMINISTRATOR PRIOR TO THE START OF CONSTRUCTION.
5. ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES.
6. CONTRACTOR SHALL PROVIDE DUST COVERS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA. BROOM CLEAN ALL AREAS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM.
7. ALL REMOVED ITEMS DEEMED TO HAVE VALUE BY THE OWNER SHALL BE DELIVERED TO A PLACE OF STORAGE AT THE SITE, AS DIRECTED. ALL OTHER ITEMS MUST BE DISPOSED OF OFF SITE IN A LEGAL MANNER.
8. WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY AND PERFORMANCE.
9. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO PUBLIC AND TO OCCUPANTS OF EXISTING BUILDING.
10. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
11. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
12. COORDINATION WITH OTHER CONTRACTS: IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE PROJECT MANAGER ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
13. VERIFY DIMENSIONS OF ALL OWNER-FURNISHED FURNISHINGS TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
14. SPECIAL INSPECTION IS REQUIRED FOR SHOP AND FIELD STRUCTURAL WELDING.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF HCAi PRE-APPROVALS FROM THE OWNERS OF THE PRE-APPROVALS AND FURNISH THE IOR WITH ONE COPY OF EACH.
16. ALL LAYDOWN AREAS SHALL BE INSIDE OF THE BUILDING. IF AN OUTDOOR LAYDOWN AREA IS REQUIRED THE CONTRACTOR SHALL COORDINATE WITH THE UCD CUP FACILITY GROUP. A MAXIMUM 40'X40' AREA MAY BE USED ALONG THE SOUTH WALL OF THE CUP UTILITY YARD ALONG THE SOUTH WALL. THE CONTRACTOR IS ALLOWED PARKING FOR A MAXIMUM OF 3 COMPANY WORK VEHICLES INSIDE OF THE CUP UTILITY YARD FOR A PERIOD OF NO LONGER THAN 2 MONTHS.
17. WORK IMPACTING THE DELIVERY OF REQUIRED SERVICES, OR EGRESS SHALL BE COORDINATED WITH FACILITY, LICENSING AGENCY, AND FIELD HCAi STAFF PRIOR TO COMMENCING WORK (1)

HCAi COMPLIANCE

1. ALL ADDENDA TO BE SIGNED BY ARCHITECT AND RESPONSIBLE CONSULTANTS, PRIOR TO SUBMITTING FOR APPROVAL BY HCAi.
2. ALL CHANGE ORDERS TO BE SIGNED BY OWNER, ARCHITECT, AND CONTRACTOR BEFORE SUBMITTING FOR APPROVAL BY HCAi.
3. ALL WORK IS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 8-SECTION 5208 ASBESTOS REGULATIONS, TITLE 19, AND TITLE 24 OF CALIFORNIA CODE OF REGULATIONS; GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
4. ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFORM TO THE FOLLOWING CODES AND REGULATIONS:

CALIFORNIA CODE OF REGULATIONS:
- TITLE 8 INDUSTRIAL RELATIONS
- TITLE 16 PROFESSIONAL & VOCATIONAL REGULATIONS - SECTIONS 1713 - 1714, PHARMACY AND DIVISION T17, PART 6
- TITLE 17 CHAPTER 5, SUBCHAPTER 4, AND PART 8, DIVISION T17, CHAPTER 5, SUBCHAPTER 4, RADIATION CONTROL REGULATIONS
- TITLE 17 PUBLIC HEALTH
- TITLE 19 PUBLIC SAFETY
- TITLE 22 SOCIAL SECURITY - DIVISION 5-LICENSING & CERTIFICATION
- TITLE 24 CALIFORNIA BUILDING STANDARDS CODE (CBSC)
  - 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
  - 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)
  - 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR BASED ON THE 20120 NATIONAL ELECTRICAL CODE (NEC)
  - 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CCR BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC)
  - 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)
  - 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR) BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)

ACCESSIBILITY: CBC CHAPTER 11B FOR ACCESSIBILITY TO PUBLIC BUILDINGS, PUBLIC ACCOMMODATIONS, COMMERCIAL BUILDINGS

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS:

NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS	2022 EDITION
NFPA 14	INSTALLATION OF STANDPIPE SYSTEMS	2019 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYS.	2021 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL SYS.	2021 EDITION
NFPA 20	INSTALLATION OF STATIONARY PUMPS	2019 EDITION
NFPA 24	INSTALLATION OF PRIVATE FIRE MAINS	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2022 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2018 EDITION
NFPA 99	HEALTH CARE FACILITIES CODE	2021 EDITION
NFPA 101	LIFE SAFETY CODE	2021 EDITION
NFPA 110	EMERGENCY AND STANDBY POWER SYSTEMS	2019 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEM	2018 EDITION

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

5. ALL NEW PIPES, DUCTS, AND CONDUITS SHALL BE BRACED & SUPPORTED PER THE REQUIREMENTS OF THE 2022 CBC. OPM ACCEPTABLE FOR SUPPORT SHALL INCLUDE "MASON INDUSTRIES, INC." OPM-0043-13 "SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES" & "B-LINE/TOLCO" OPM-0052-13 "SEISMIC BRACING AND SUPPORT SYSTEMS". LAYOUT DRAWINGS, SHOWING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT HCAi PRE-APPROVALS FOR PIPING/DUCT/CONDUITS EXCEPT FIRE SPRINKLERS, NEED TO BE SUBMITTED FOR USE BY THE IOR AND HCAi FIELD STAFF. THE LAYOUT DRAWINGS NEED TO BE REVIEWED AND ACCEPTED BY THE AOR AND EOR (SE AND/OR ME/EE) PRIOR TO STARTING INSTALLATION OF THE BRACING/SUPPORT. IOR SHALL ENSURE THE ABOVE REQUIREMENTS ARE SATISFIED.
6. LUMBER GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOC. (WWPA) SHALL APPLY.
7. PLYWOOD SHALL CONFORM TO STANDARDS OF U.S. VOLUNTARY PRODUCT STANDARD PS 1-09 (LATEST EDITION) GRADED AND GRADE MARKED SOFTWOOD PLYWOOD.
8. THE SPACING AND DETAILS OF THE SUPPORT AND BRACING OF FIRE SPRINKLER PIPING SHALL COMPLY WITH THE NFPA 13 AS MODIFIED BY THE 2022 CBC SECTIONS 1616A MODIFICATIONS TO ASCE 7 AND SFM AMENDMENTS. PROVIDE DETAILS AND CALCULATIONS FOR THE SWAY BRACING AND THEIR ANCHORAGES TO THE STRUCTURE. WHERE APPLICABLE, DETAILS FOR THE SUPPORTS, ATTACHMENTS, AND BRACING MAY BE REFERRED TO AN HCAi PREAPPROVAL OF MANUFACTURE'S CERTIFICATION (OPM). ALL LAYOUT DRAWINGS OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED TO HCAi FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
9. THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING STANDARDS CODE (CBSC). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY W/ THE SAID CBSC, A CHANGE ORDER DETAILING & SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO & APPROVED BY HCAi BEFORE PROCEEDING WITH THE WORK.

   REFERENCE: 2022 CAC SECTION 7-109, & 2022 CBC SECTIONS 107 & 116.
10. EXPANSION ANCHORS IN HARDENED CONCRETE (HARD ROCK OR LIGHTWEIGHT) SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. ANCHORAGE AND SUPPORTS OF ALL EQUIPMENT TO BE INSTALLED ,AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY 2022 CBC SECTION 1616A.1.18.

    EQUIPMENT SUPPORTS OF ALL ANCHORAGE SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD AND HCAi AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

    REFERENCE: 2022 CBC SECTIONS 107 & 1616A.
12. THE HOSPITAL SHALL PROVIDE FOR COMPETENT, ADEQUATE, AND CONTINUOUS INSPECTION BY ONE OR MORE INSPECTORS SATISFACTORY TO THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE WORK AND HCAi.
13. THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE SHALL ESTABLISH & ADMINISTER THE TESTING PROGRAM. THE HOSPITAL SHALL SELECT A QUALIFIED PERSON OR TESTING LABORATORY AS THE TESTING AGENCY TO CONDUCT THE TESTS. THE SELECTED PERSON OR TESTING LABORATORY MUST BE APPROVED BY THE ARCHITECT OR ENGINEER. THE HOSPITAL SHALL PAY FOR ALL TESTS. REPORT OF TEST RESULT SHALL BE SUBMITTED TO HCAi, OWNER, ARCHITECT, & STRUCTURAL ENGINEER.
14. EQUIPMENT SHALL BE APPROVABLE IF IT IS LISTED, LABELED OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL)AS RECOGNIZED BY THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
15. IN ACCORDANCE WITH 2022 CAC, SECTION 7-125(c), CHANGES TO THE DRAWINGS AND SPECIFICATIONS MADE AFTER THE FIRST SUBMISSION FOR APPROVAL (OTHER THAN CHANGES MADE IN COMPLIANCE WITH HCAi COMMENTS) MUST BE BROUGHT TO THE ATTENTION OF THE OFFICE IN WRITING OR BY SUBMISSION OF REVISED DRAWINGS IDENTIFYING THOSE CHANGES. FAILURE TO GIVE SUCH NOTICE VOIDS ANY SUBSEQUENT APPROVAL GIVEN TO THE DRAWINGS AND SPECIFICATIONS.
16. INSTALLATION OF POST INSTALLED ANCHORS:

    WHEN INSTALLING DRILLED-IN ANCHORS &/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT & THE DRILLED-IN ANCHOR &/OR PIN.

    REFERENCE: 2022 CBC SECTION 1616A.1.19

OWNER

OWNER:

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
UC DAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
U.C. DAVIS HEALTH
4800 2ND AVE: SUITE 3019
SACRAMENTO, CA 95817
PHONE:

CONSULTANTS

PRIME CONSULTANT / MECHANICAL ENGINEER:
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DAVIS, CA 95618
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CONTACT: WILLIAM CHIN

STRUCTURAL ENGINEER:
BUEHLER & BUEHLER STRUCTURAL ENGINEERS, INC.
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SACRAMENTO, CA 95811
PHONE: (916) 443-0303
CONTACT: BRIAN REIL

ELECTRICAL ENGINEER:
EDGE ELECTRICAL CONSULTING, INC.
431 30TH STREET
SACRAMENTO, CA 95816
PHONE: (916) 256-2460
CONTACT: GORDON WONG

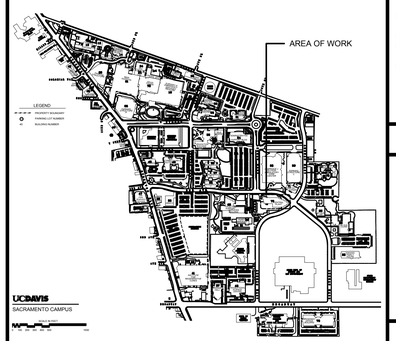
LOCATION MAP

NO SCALE

SEE SUPPLEMENTAL NOTE 16 REGARDING CONTRACTOR PARKING IN THIS AREA

VICINITY MAP

NO SCALE



INDEX OF DRAWINGS

BID ALTERNATES

BID ALTERNATE #1

BASE BID SHALL INCLUDE ALL WORK ASSOCIATED WITH THE DA TANK MODIFICATIONS ASSOCIATED WITH BID ALTERNATE #1. SEE FLOOR PLANS.

BID DEDUCTIVE ALTERNATE #1 SHALL PROVIDE A COST ASSOCIATED WITH ELIMINATING THE SCOPE ASSOCIATED WITH THE PIPING MODIFICATIONS TO THE DA TANK AS SHOWN AND OUTLINED ON THE FLOOR PLANS

EXISTING CONDITIONS

1. TYPE OF EXISTING CONSTRUCTION	:	III-N
2. NUMBER OF FLOORS	:	3
3. NUMBER OF BASEMENTS	:	1
4. FULLY SPRINKLERED BUILDING	:	YES
5. EXISTING OCCUPANCY GROUP	:	F-1
6. NEW OCCUPANCY GROUP	:	F-1
7. NPC RATING ((E) HOSPITAL)	:	2
8. SPC RATING ((E) HOSPITAL)	:	3
9. HCAi BLDG NUMBER	:	BLD-01444

SCOPE OF WORK

THE FOCUS OF THE PROJECT IS ASSOCIATED WITH THE STEAM CONDENSATE PIPING ASSOCIATED WITH THE CONDENSATE RECEIVER AND RETURN PUMPS LOCATED IN THE BASEMENT TO THE DE-AERATOR TANK LOCATED ON THE FIRST FLOOR. THE PUMPED CONDENSATE RETURN BETWEEN THE CONDENSATE RECEIVER AND THE DEAERATOR IS UNSUPPORTED AND SHAKES WHEN THE CONDENSATE RECEIVER PUMPS CYCLE ON AND OFF, THE 4" CONDENSATE RETURN PIPING SHAKES AND SWINGS DUE TO THE LACK OF PIPE SUPPORT.

ADDITIONALLY THIS PROJECT CONSISTS OF RETROFITTING THE CONDENSATE RETURN PUMPS AS WELL AS THE MEDIUM PRESSURE BOILER FEED WATER PUMPS WITH VARIABLE FREQUENCY DRIVES.

THE PROJECT ALSO CONSISTS OF MISC UNRELATED ITEMS THAT THE CENTRAL UTILITY PLANT OPERATORS AND ENGINEERS WOULD LIKE TO HAVE ADDRESSED TO IMPROVE THE OVERALL FUNCTIONALITY OF THE PLANT. THIS INCLUDES ADDITIONAL FLOOR DRAINS, GAS FLOW METERS, STEAM CONDENSATE FLOW METERS AND REROUTING OF (E) PIPING FOR EQUIPMENT MAINTENANCE AND OPERABILITY.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/7/2025, 3:28:21 PM
S241919-34-00
Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

DESIGN PROFESSIONALS OF RECORD:

ADAM C. DAVIS — REGISTERED PROFESSIONAL ENGINEER — M 34869 — EXPIRES 06/30/26 — MECHANICAL — STATE OF CALIFORNIA

WILLIAM CHIN — LICENSED ARCHITECT — C-32475 — 12-31-2025 RENEWAL DATE — STATE OF CALIFORNIA

UC DAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
S

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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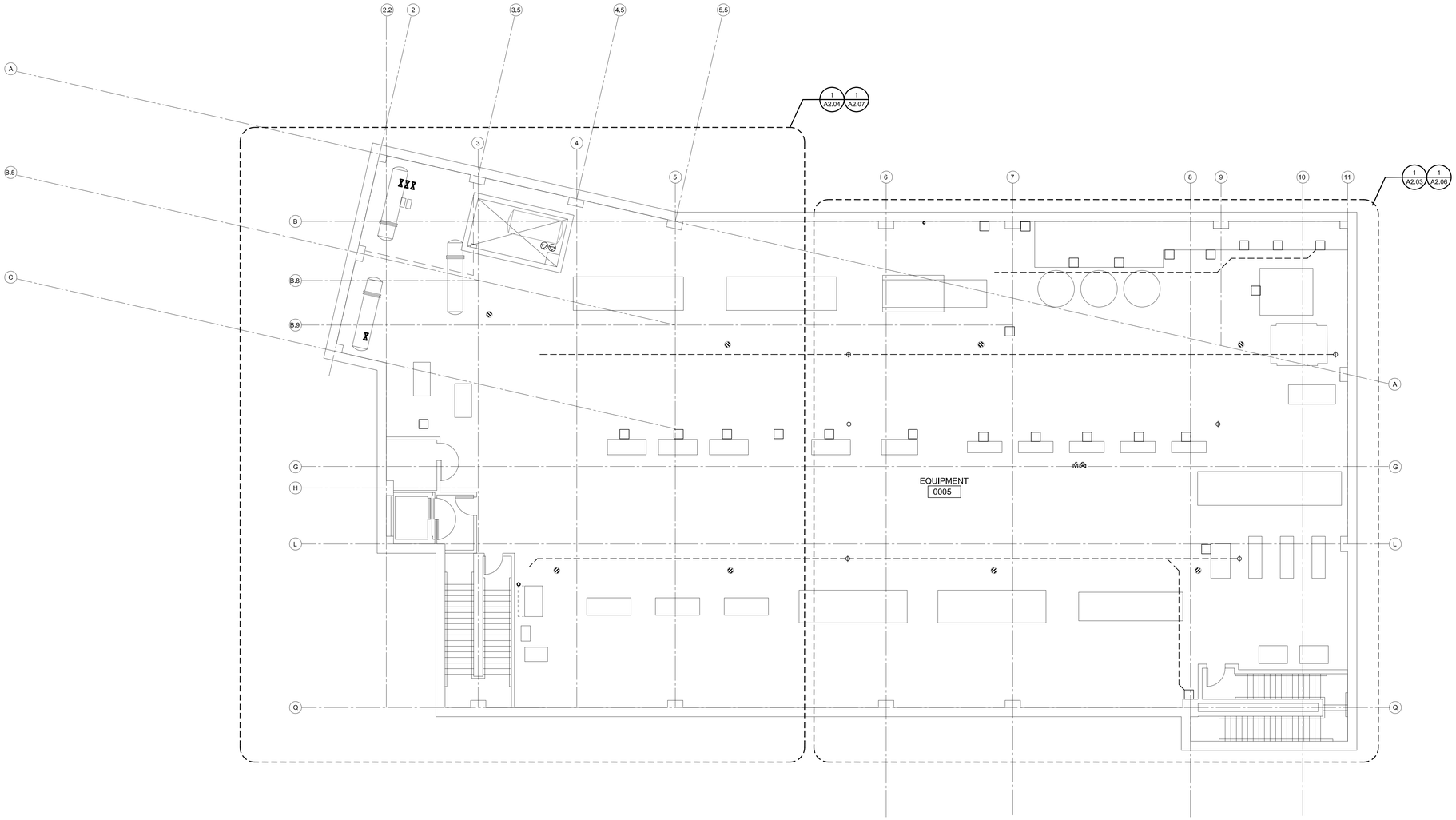

1 OVERALL BASEMENT FLOOR PLAN

SCALE: 1/8" = 1'-0"

File Name

N

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APPROVED

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Office of Statewide Hospital Planning and Development
4/7/2025, 3:28:21 PM
S241919-34-00
Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

LICENSED ARCHITECT — WILLIAM CHEN — C-32475 — 12-31-2025 RENEWAL DATE — STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

HIBSER YAMAUCHI ARCHITECTS, INC.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

THIS ISSUE:	ISSUED FOR	Date
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	100% DD	03/6/2024
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	100% CD	10/01/2024
2	DESIGN REVISION	02/28/2025

100% CONSTRUCTION DOCUMENTS

Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: OVERALL BASEMENT FLOOR PLAN

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. MG	Scale: AS NOTED	A2.01
Designed By: AD	Issue Date: 10/01/2024	
Drawn By: AD	ACAD Version: 2022	

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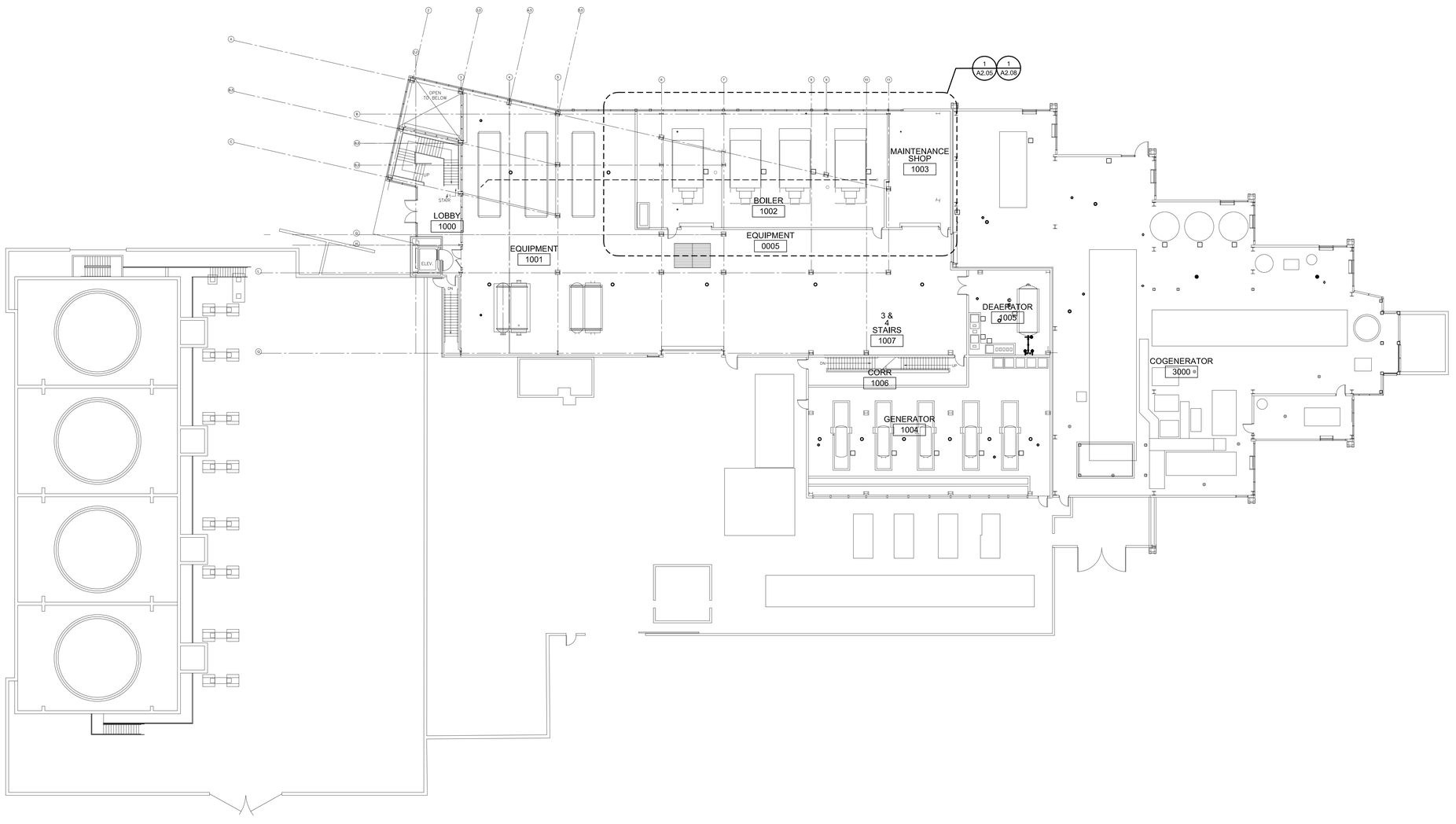
GRAPHIC SCALES:
0 5' 50' 1/16" = 1'-0"
0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
0 4' 3/4" = 1'-0"
0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
0 1' 3" = 1'-0"



1 OVERALL FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

File Name

N

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Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

LICENSED ARCHITECT
ADAM CHI DAVIS
C-32475
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95317
(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES
MECHANICAL ENGINEERS

CONSULTANTS:

HIBSER YAMAUCHI ARCHITECTS, INC.
4602 2nd Street, Suite 3
Davis, CA 95618
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100% CONSTRUCTION DOCUMENTS

Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: OVERALL FIRST FLOOR PLAN

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. A2.02
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: AD	Issue Date: 10/01/2024	
Drawn By: AD	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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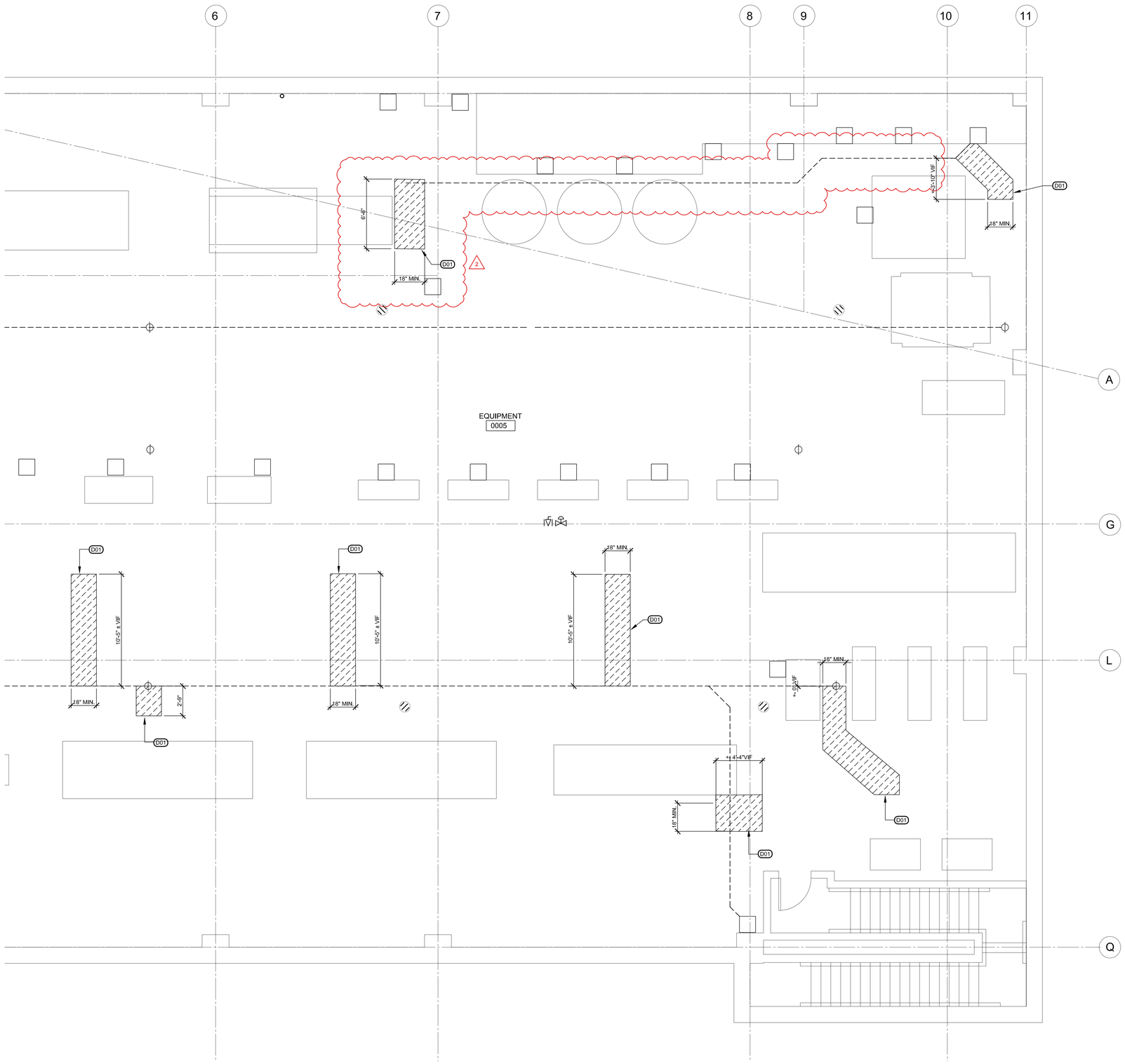

1 DEMO PARTIAL BASEMENT FLOOR PLAN

SCALE: 1/4" = 1'-0"

File Name

N

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. MAINTAIN (E) FIREPROOFING. PATCH AND REPAIR AS NEEDED

LEGEND

- DEMO PORTION OF (E) FLOOR
- (E) DRAIN TO REMAIN
- (E) 4" LINE - SPD

DEMO NOTES

D01 SAW CUT (E) FLOOR AS REQUIRED FOR NEW FLOOR DRAIN AND TO TIE INTO (E) LINE. SPD FOR LOCATIONS

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
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Office of Statewide Hospital Planning and Development
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Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

LICENSED ARCHITECT WILLIAM CHU C-32475 12-31-2025 RENEWAL DATE STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UC DAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7024

WAME PROJECT #: 22-023
WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:
HIBSER YAMAUCHI ARCHITECTS, INC.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

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Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: DEMO PARTIAL BASEMENT FLOOR PLAN - EAST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. A2.03
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: AD	Issue Date: 10/01/2024	
Drawn By: AD	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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GENERAL NOTES

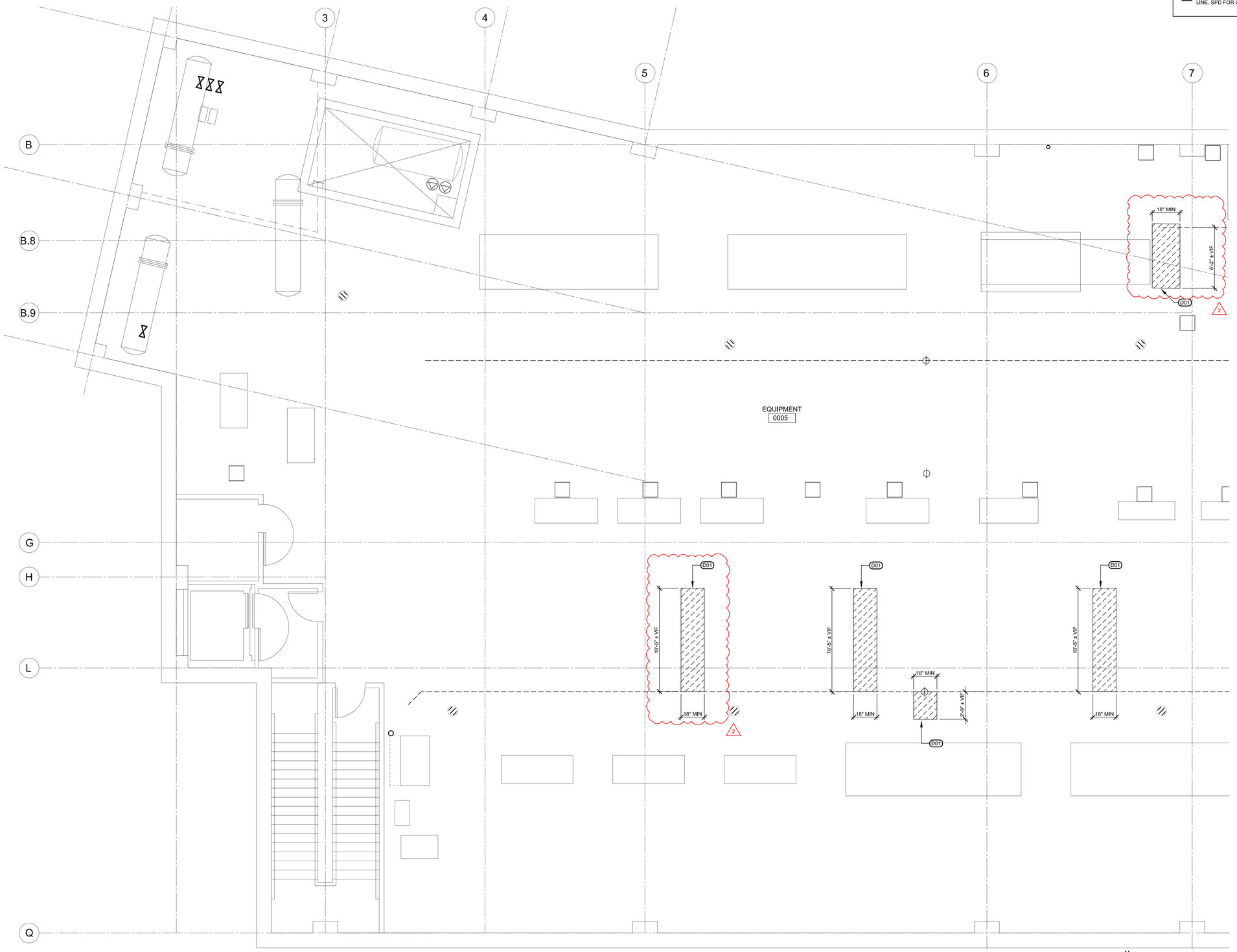
1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. MAINTAIN (E) FIREPROOFING. PATCH AND REPAIR AS NEEDED

LEGEND

- DEMO PORTION OF (E) FLOOR
- (E) DRAIN TO REMAIN
- (E) 4" LINE - SPD

DEMO NOTES

(D01) SAW CUT (E) FLOOR AS REQUIRED FOR NEW FLOOR DRAIN AND TO TIE INTO (E) LINE, SPD FOR LOCATIONS



1 DEMO PARTIAL BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"
File Name

N

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Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

LICENSED ARCHITECT WILLIAM CHIN STATE OF CALIFORNIA
C-32475
12-31-2025
RENEWAL DATE

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7026

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

HIBSER YAMAUCHI ARCHITECTS, INC.
1602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

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Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: DEMO PARTIAL BASEMENT FLOOR PLAN - WEST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. A2.04
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: AD	Issue Date: 10/01/2024	
Drawn By: AD	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. MAINTAIN (E) FIREPROOFING. PATCH AND REPAIR AS NEEDED

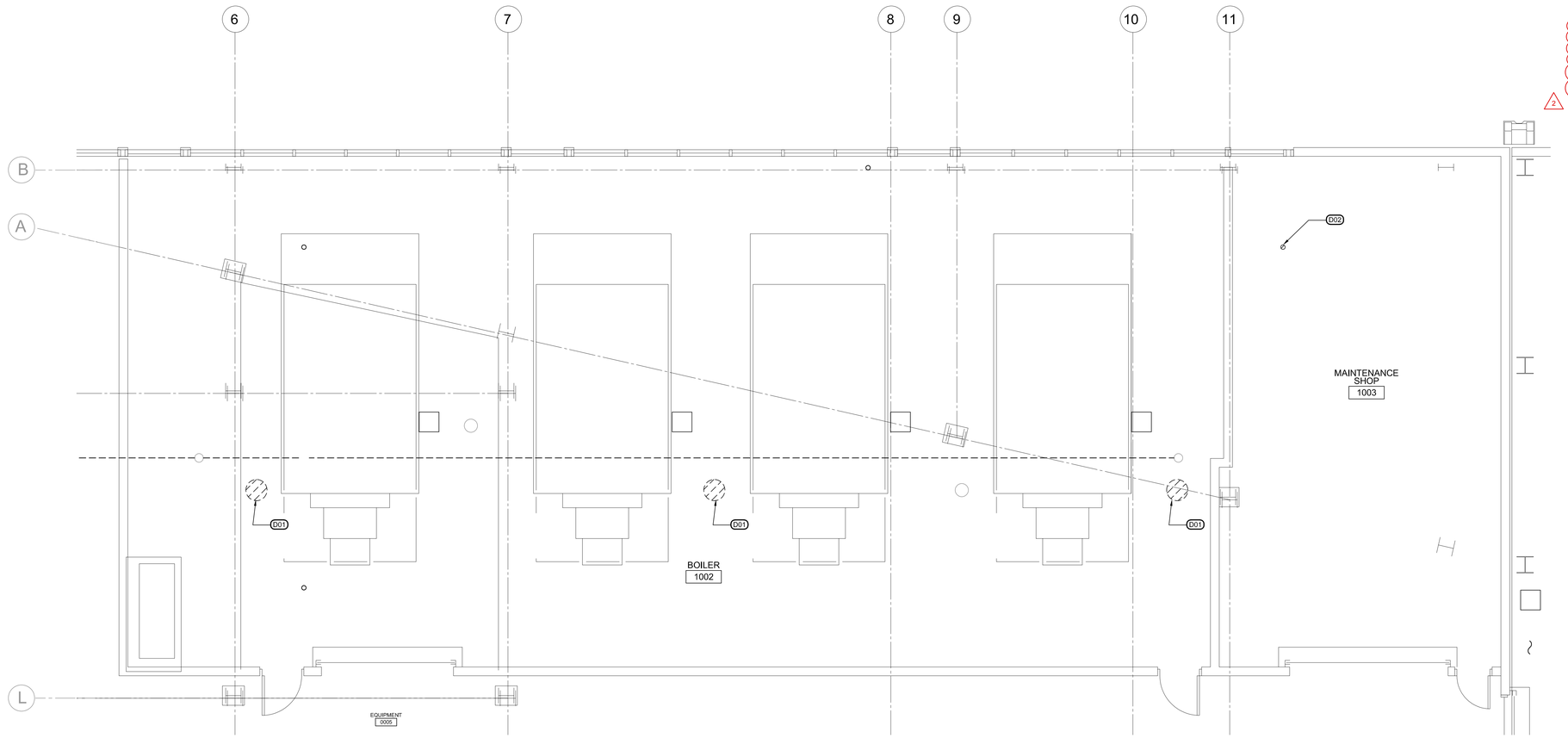
LEGEND

- DEMO PORTION OF (E) FLOOR
- (E) DRAIN TO REMAIN
- (E) 4" LINE - SPD

DEMO NOTES

D01 CORE PORTION OF (E) FLOOR AS REQUIRED FOR NEW FLOOR DRAIN. SPD FOR LOCATIONS. SCAN (E) SLAB TO AVOID (E) REBAR AS NECESSARY

D02 DEMO PORTION OF (E) ROOF ABOVE FOR NEW 4" VENT. SMD FOR LOCATION.



1 DEMO PARTIAL FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

File Name

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DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

LICENSED ARCHITECT WILLIAM CHEN C-32475 12-31-2025 RENEWAL DATE STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

HIBSER YAMAUCHI ARCHITECTS, INC.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

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Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: DEMO PARTIAL FIRST FLOOR PLAN - WEST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. MG	Scale: AS NOTED	A2.05
Designed By: AD	Issue Date: 10/01/2024	
Drawn By: AD	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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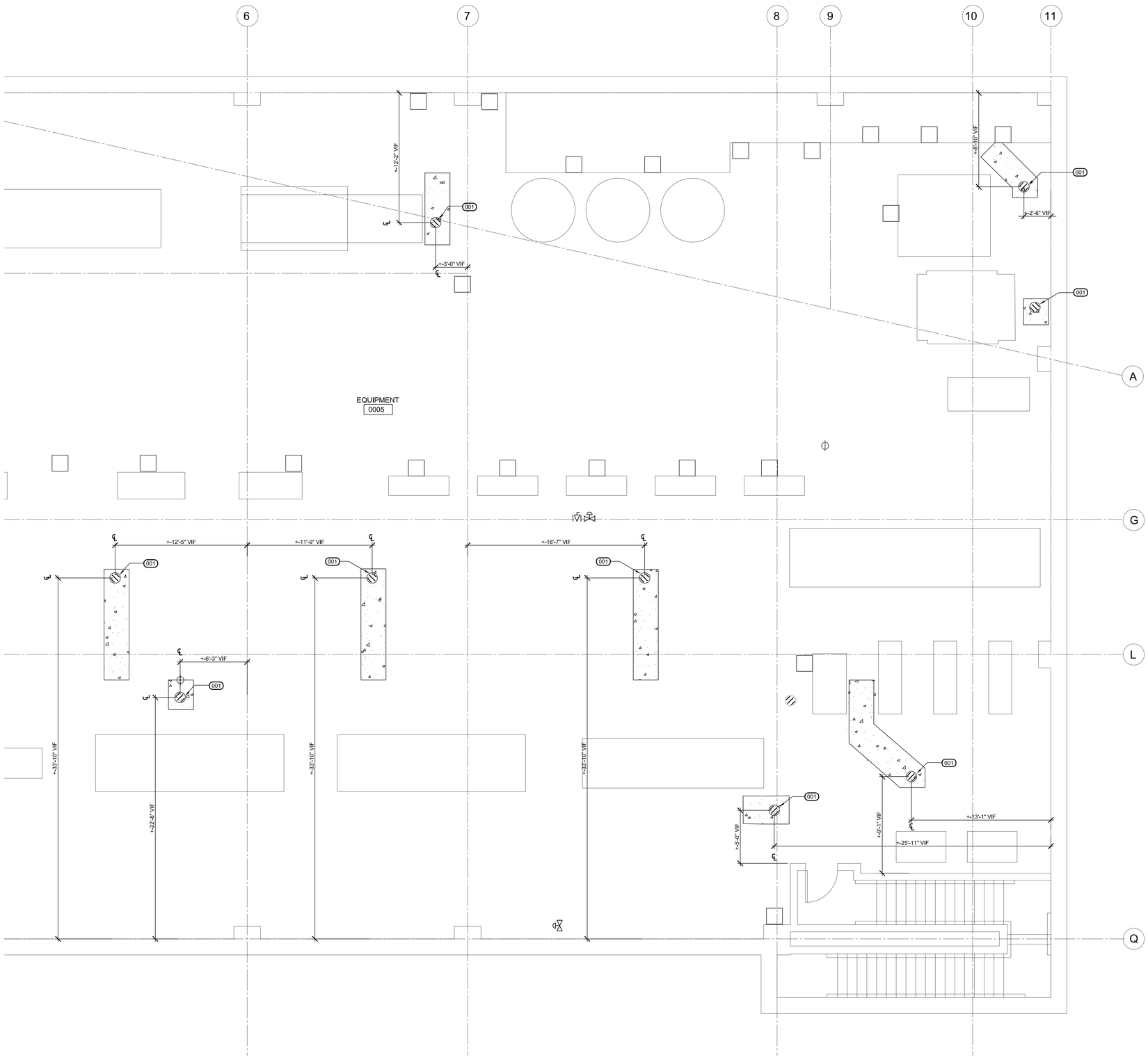

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. MAINTAIN (E) FIREPROOFING. PATCH AND REPAIR AS NEEDED

LEGEND

(E) DRAIN TO REMAIN

(N) FLOOR DRAIN.

REMODEL NOTES

001 NEW FLOOR DRAIN TO BASEMENT, SPD AND DETAIL. SSD FOR CONCRETE INFILL DETAIL (5 / A9.01)

1 DEMO PARTIAL BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"

File Name

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DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

LICENSED ARCHITECT WILLIAM CHIN C-32475 12-31-2025 RENEWAL DATE STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

HIBSER YAMAUCHI ARCHITECTS, INC.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

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Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL BASEMENT FLOOR PLAN - EAST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. A2.06
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: AD	Issue Date: 10/01/2024	
Drawn By: AD	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. MAINTAIN (E) FIREPROOFING. PATCH AND REPAIR AS NEEDED

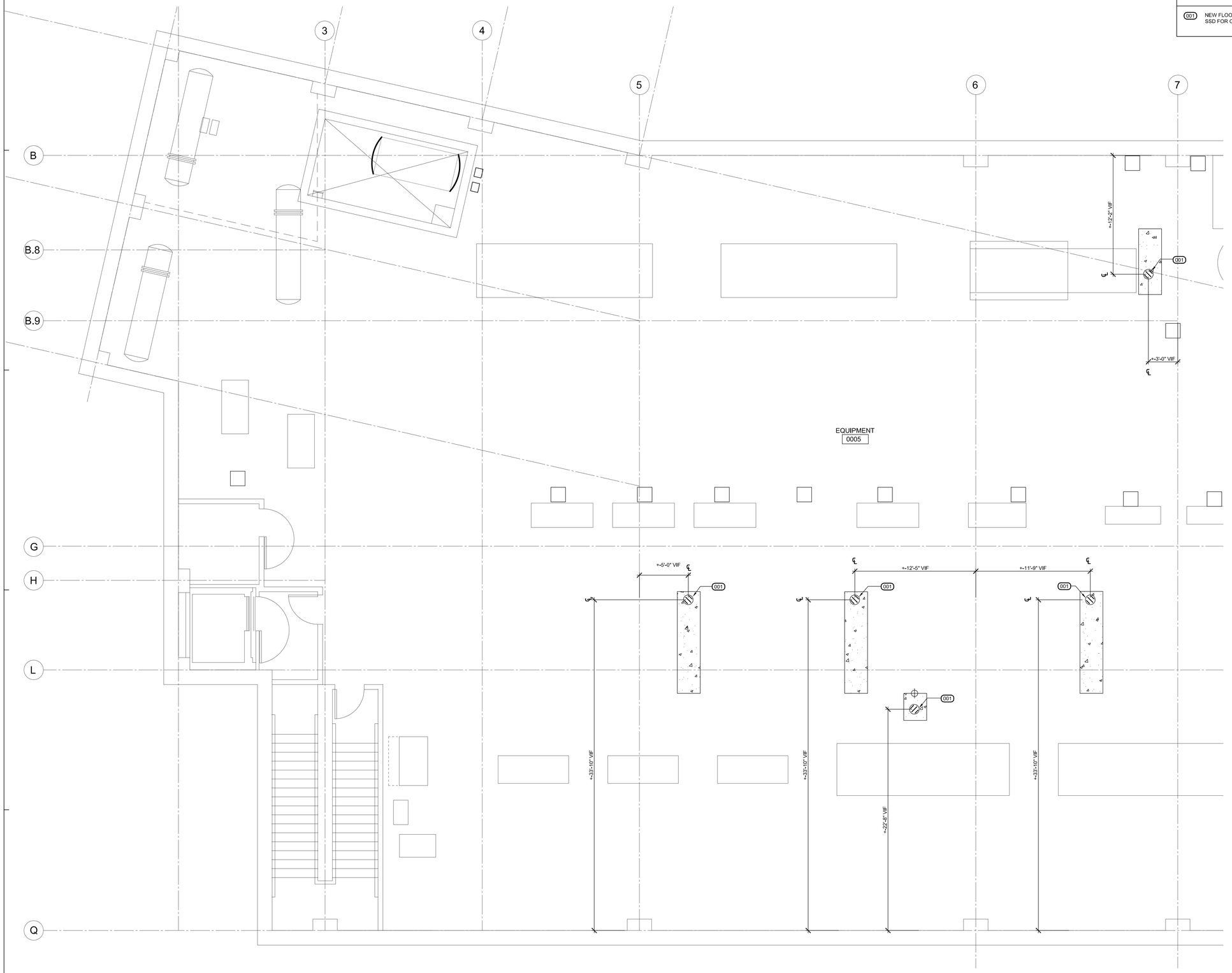
LEGEND

(E) DRAIN TO REMAIN

(N) FLOOR DRAIN.

REMODEL NOTES

001 NEW FLOOR DRAIN TO BASEMENT, SPD AND DETAIL. 5/A9.01 SSD FOR CONCRETE INFILL DETAIL



1 PARTIAL BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"

File Name

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Office of Statewide Hospital Planning and Development
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DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

LICENSED ARCHITECT WILLIAM CHEN C-32475 12-31-2025 RENEWAL DATE STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

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Account No.: 9557960
HCAI No.: S2419 19-34-00
Bldg. No.: 73
Floor/Wng: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL BASEMENT FLOOR PLAN - WEST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. MG	Scale: AS NOTED	A2.07
Designed By: AD	Issue Date: 10/01/2024	
Drawn By: AD	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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GENERAL NOTES

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2. MAINTAIN (E) FIREPROOFING. PATCH AND REPAIR AS NEEDED

LEGEND

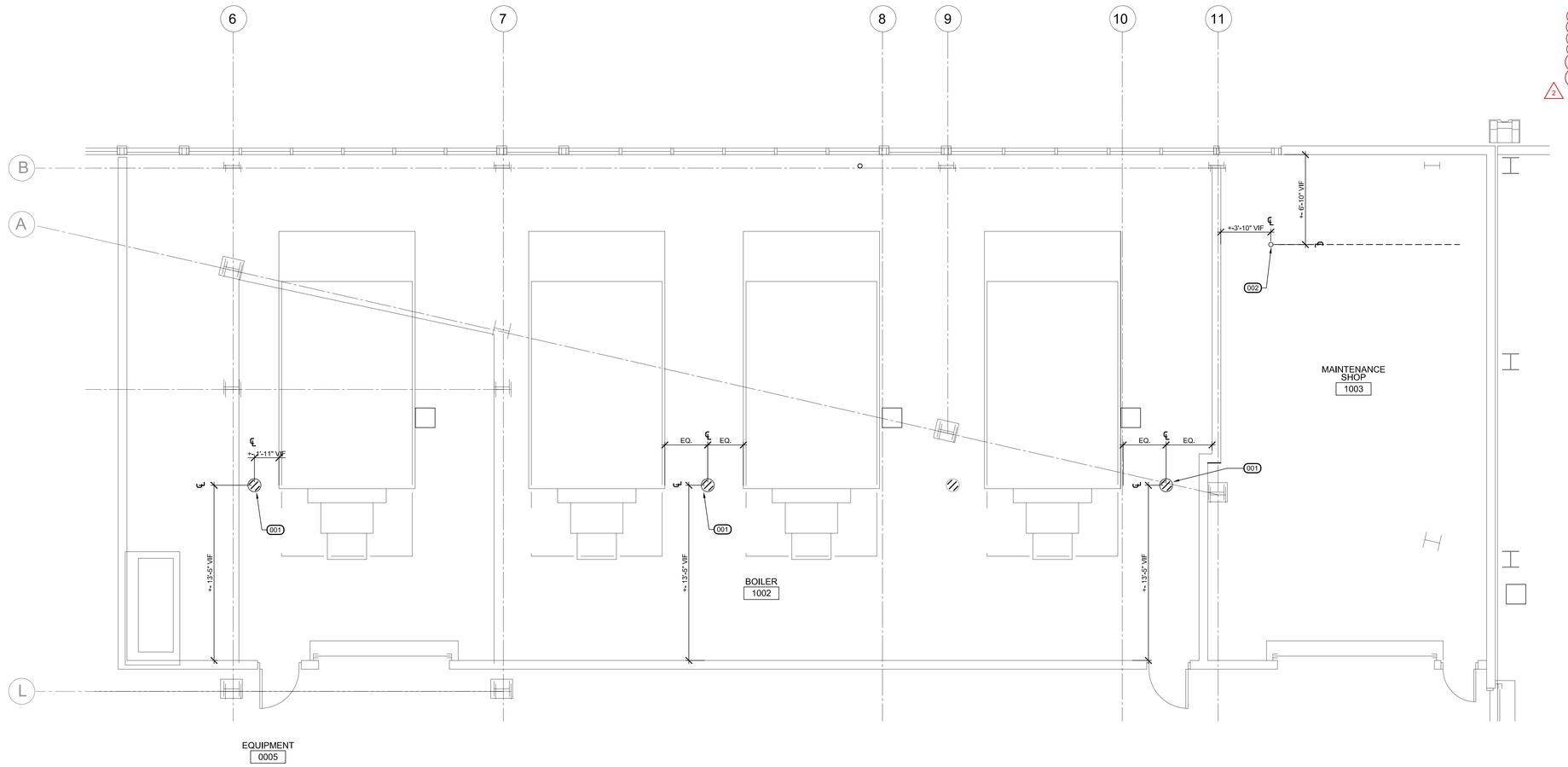
(E) DRAIN TO REMAIN

(N) FLOOR DRAIN.

REMODEL NOTES

001 NEW FLOOR DRAIN TO BOILER ROOM BELOW. 10 / A9.01

002 4" VENT THROUGH ROOF, SPD AND DETAIL 7 / A9.01



1 PARTIAL FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

File Name

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Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

LICENSED ARCHITECT WILLIAM CHEN C-32475 12-31-2025 RENEWAL DATE STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

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Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

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Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL FIRST FLOOR PLAN - EAST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. MG	Scale: AS NOTED	A2.08
Designed By: AD	Issue Date: 10/01/2024	
Drawn By: AD	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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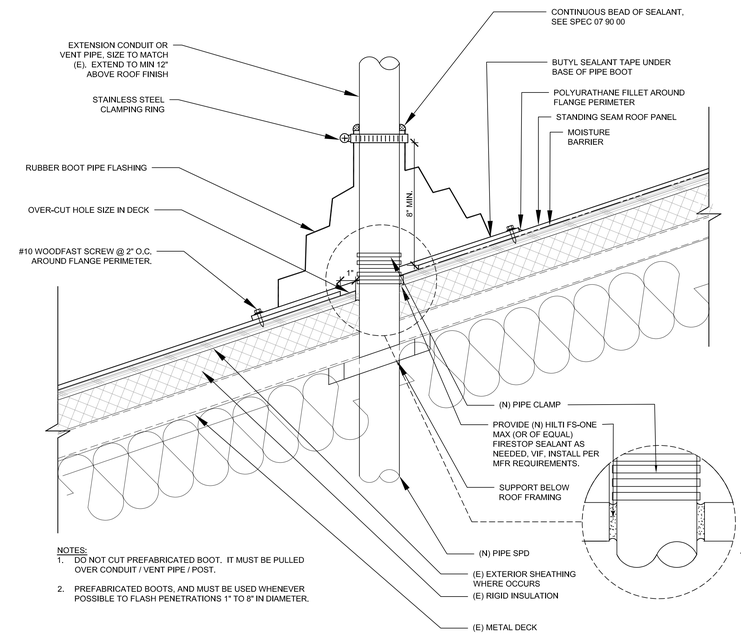


NOTES:
1. DO NOT CUT PREFABRICATED BOOT. IT MUST BE PULLED OVER CONDUIT / VENT PIPE / POST.
2. PREFABRICATED BOOTS, AND MUST BE USED WHENEVER POSSIBLE TO FLASH PENETRATIONS 1" TO 8" IN DIAMETER.

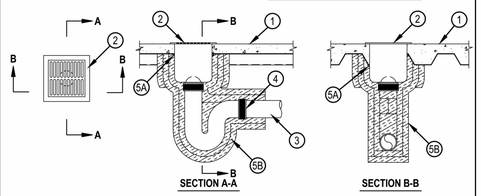
7 VENT AT METAL ROOF
SCALE: 3" = 1'-0"

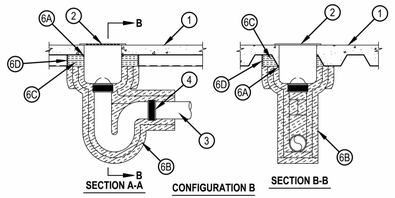
System No. F-A-1137

FA 1137

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 2 Hr	FT Rating — 2 Hr
L Rating At Ambient — Less Than 1 CFM/ft²	FH Rating — 2 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 2 Hr
	L Rating At Ambient — Less Than 5.1 L/s/m²
	L Rating At 204°C — 5.4 L/s/m²





HILTI Hilti Firestop Systems

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System No. F-A-1137

FA 1137

1. Floor or Wall Assembly — The fire rated protected or unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D700 or D900 Series designs in the UL Fire Resistance Directory and as summarized below:
   A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
   B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
   C. Spray-Applied Fire Resistive Material* — (Optional. Not Shown.) - Steel floor units may be sprayed with the type and thickness of fire resistive material indicated in the individual D700 Series Design.
      UNITED STATES MINERAL PRODUCTS CO, DBA ISOLATEK INTERNATIONAL — Type 300
      GCP APPLIED TECHNOLOGIES INC — MK-6/HY+
2. Floor Sink and Grate — Max 12 in. wide by 12 in. long by 10 in. (305 by 305 by 254 mm) deep cast iron waste drain floor sink permanently embedded during concrete pour or grouted into concrete floor assembly. Cast iron floor grating to be installed at top of sink. Metal dome strainer may be used in sink drain. Sink flanges to bear on top plane of floor assembly.
3. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe to be secured to outlet of floor sink with no-hub coupling and to be rigidly supported beneath floor away from floor sink with suitable hangers.
4. Compression Coupling — Nom 4 in. (102 mm) diam (or smaller) compression type high pressure pipe coupling with elastomeric plastic and a stainless steel shield. Coupling to be secured to pipe with stainless steel hose clamps at any point beyond the bottom of floor.

Firestop Configuration A

5. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Materials*- Sealant — Min 1/2 in. (13 mm) bead of fill material applied around periphery of floor sink at interface with bottom surface of floor.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
   B. Duct Wrap Materials* — Two layers of nom 1-1/2 in. (38 mm) thick faced or unfaced duct wrap to be tightly wrapped around sink and drain pipe. Top ends of both layers of duct wrap shall be cut to contour of the fluted deck and extend a minimum of 24 in. (610 mm) beyond the bottom (valley) of the fluted floor. An additional layer of nominal 1-1/2 in. (38 mm) thick duct wrap (faced or unfaced) tightly wrapped around the first two layers, cut to contour of the fluted deck and extending down beyond bottom (valley) of fluted deck min 6 in. (152 mm). The exposed duct wrap layers are held in position using nom 16 ga steel wire ties spaced max 8 in. (203 mm) on center and max 1 in. (25 mm) from bottom valley of fluted deck or from ends of layers.
      THERMAL CERAMICS INC — FireMaster FastWrap XL, FireMaster FastWrap+ or Pyroscat DuctWrap XL
      UNIFRAX I L L C — FyreWrap Duct Insulation or FyreWrap Duct 1.5 Insulation

Firestop Configuration B

6. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Materials*- Sealant — Min 1/2 in. (13 mm) bead of fill material applied around periphery of floor sink at interface with bottom surface of floor.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant
   B. Duct Wrap Materials* — Two layers of nom 1-1/2 in. (38 mm) thick faced or unfaced duct wrap to be tightly wrapped around sink and drain pipe flush with bottom (valley) of fluted floor deck. Both layers of duct wrap shall extend a minimum of 24 in. (610 mm) beyond the bottom of floor .An additional layer of nominal 1-1/2 in. (38 mm) thick duct wrap (faced or unfaced) tightly wrapped around the first two layers flush with bottom of fluted floor deck and extending down min 6 in. (152 mm). Exposed duct wrap layers are held in position using nom 16 ga steel wire ties spaced max 8 in. (203 mm) on center and max 1 in. (25 mm) from ends of layers.
      THERMAL CERAMICS INC — FireMaster FastWrap XL, FireMaster FastWrap+ or Pyroscat DuctWrap XL
      UNIFRAX I L L C — FyreWrap Duct Insulation or FyreWrap Duct 1.5 Insulation
   C. Duct Wrap Materials* — Additional pieces of nom 1-1/2 in. (38 mm) thick faced or unfaced duct wrap are cut to contour and friction fit to fill the space between duct wrap layers (Item 5B) and fluted deck. In the exposed fluted area, duct wrap is recessed 1/4 in. (6 mm) from outer duct wrap layer (Item 5B) to accommodate the fill material (Item 5D).
      THERMAL CERAMICS INC — FireMaster FastWrap XL, FireMaster FastWrap+ or Pyroscat DuctWrap XL
      UNIFRAX I L L C — FyreWrap Duct Insulation or FyreWrap Duct 1.5 Insulation
   D. Fill, Void or Cavity Materials*- Sealant — Min 1/4 in. (6 mm) thickness of fill material applied over the duct wrap within exposed fluted area (Item 5C), between top of duct wrap layer (Item 5B) and bottom of fluted deck, flush with the outer layer of the duct wrap (Item 5B).
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI Hilti Firestop Systems

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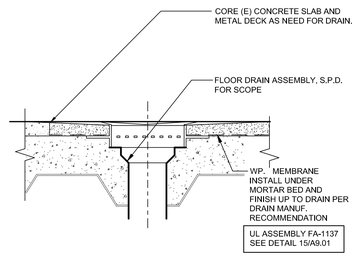
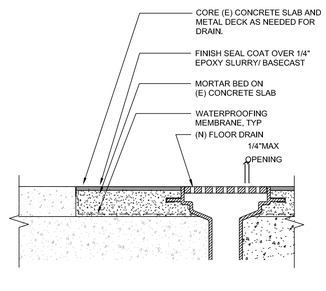
Page: 2 of 2

15 F-A-1137 UL ASSEMBLY
SCALE: 3" = 1'-0"



10 FLOOR DRAIN - FIRST FLOOR
SCALE: 3" = 1'-0"



5 FLOOR DRAIN AT BASEMENT
SCALE: 3" = 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/7/2025, 3:28:21 PM
S241919-34-00
Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

LICENSED ARCHITECT WILLIAM CHOU C-32475 12-31-2025 RENEWAL DATE STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

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Davis, CA 95618
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THIS ISSUE:	ISSUED FOR	Date
	100% SD	12/20/2023
	100% DD	03/6/2024
	50% CD	08/19/2024
	100% CD	10/01/2024
2	DESIGN REVISION	02/28/2025

100% CONSTRUCTION DOCUMENTS

Account No.: 9557960
HCAI No.: S2419119-34-00
Bldg. No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: DETAILS

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: AD	Issue Date: 10/01/2024	A9.01
Drawn By: AD	ACAD Version: 2022	

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

GENERAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES
1007N001

1. INTERPRETATION OF DRAWINGS & SPECIFICATIONS
   A. WHERE SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT, THEY ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND THEIR SUBCONTRACTORS.
   B. IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITION AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED, SHALL IDENTICAL OR SIMILAR TO LIKE CASES OF CONSTRUCTION THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS WILL PREVAIL.
   C. SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISION OR INSTRUCTIONS IN WRITING FROM THE OWNER, THEN THE CONTRACTOR SHALL HAVE NO VALID CLAIM AGAINST THE OWNER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATION IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT, SHOULD THE CONTRACTOR ELECT TO PROCEED, THEY ARE DOING SO AT THEIR OWN RISK.
2. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
3. SHOP DRAWING NOTE:
   A. WHEN NOT ADDRESSED BY DIVISION 1 OF THE SPECIFICATIONS, SUBMITTALS SHALL BE ELECTRONIC PDF FORMAT.
   B. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE STRUCTURAL ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL THE CONTRACTOR INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS THE CONTRACTOR INTENDS TO USE ON A STAND ALONE SET OF DOCUMENTS. DUPLICATION OF DESIGN DOCUMENTS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE.
   C. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER. SHOP DRAWING SUBMITTALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, STRUCTURAL STEEL, REINFORCING STEEL, & GLUE-LAMINATED BEAMS.
   D. PRIOR TO SUBMISSION THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE".
   E. SHOP DRAWING SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
   F. ANY DETAIL ON THE SHOP DRAWINGS THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS IS A CHANGE".
   G. SHOP DRAWINGS OR CALCULATIONS SUBMITTED FOR REVIEW THAT REQUIRE RESUBMITTAL FOR RE-REVIEW SHALL BE BILLED HOURLY FOR SUCH TIME TO THE GENERAL CONTRACTOR. RE-REVIEW WILL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE GENERAL CONTRACTOR FOR ADDITIONAL ENGINEERING REVIEW SERVICES.
4. SAFETY NOTE:
   A. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA LATEST EDITION, AND ALL OSHA REQUIREMENTS.
   B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED, SHORING INDICATIONS (LOCATION, DIRECTION, DURATION, ETC.) ARE ONLY SHOWN ON THE STRUCTURAL DRWGS WHEN REQUIRED TO IMPLEMENT THE DESIGN INTENT OF THE FINAL WORK PRODUCT. DETERMINATION WHETHER SHORING IS REQUIRED FOR TEMPORARY OR INTERMEDIATE CONDITIONS DURING CONSTRUCTION IS WHOLLY THE RESPONSIBILITY OF THE CONTRACTOR.
   C. THE OWNER AND THE STRUCTURAL ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PRIOR TO COMMENCING ANY WORK.
6. WHERE NO SPECIFIC DETAIL IS SHOWN, CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. SHOULD THERE BE ANY QUESTION, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING.
7. WHEN CONSTRUCTION ATTACHES TO OR IS WITHIN AN EXISTING BUILDING, A COMPLETE SET OF DRAWINGS OF THE EXISTING BUILDING SHALL BE KEPT ON THE JOB SITE. CONTRACTOR TO OBTAIN THESE DRAWINGS FROM THE OWNER (IF THEY ARE AVAILABLE).
8. CONTRACTOR SHALL PROVIDE AN ALLOWANCE EQUAL TO 2% OF THE BID FOR STRUCTURAL STEEL, MISC. IRON AND REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER. UNUSED AMOUNT TO REVERT TO THE OWNER UPON COMPLETION OF THE JOB.
9. ANY SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER. SUCH REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
10. DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT OR STRUCTURAL ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
11. THESE DRAWINGS ARE NOT COMPLETE UNTIL REVIEWED AND ACCEPTED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

DESIGN CRITERIA
1007N002-19

1. CODES AND STANDARDS
   2022 CALIFORNIA BUILDING CODE (CBC w/ STATE OF CA AMENDMENTS)
   ASCE 7-16
   ACI 318-19
   AISC 360-16, 341-16, 358-16
   AISI S100-16 w/ S2-20, S240-20, S400-20
   TMS 402/602-16
   2018 NDS, 2021 SDPWS
2. LATERAL LOADS
   SEISMIC:
   SITE CLASS D (DEFAULT)
   S_S = 0.546 ; S_{DS} = 0.496
   S_1 = 0.247 ;
   I_e = 1.5 PER ASCE 7-16 SECT 13.1.3
   RISK CATEGORY: IV
   SEISMIC DESIGN CATEGORY: D

HOSPITAL EQUIPMENT ANCHORAGE
1007N015

SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY CBC SECTION 1617A.1.18. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD (RDP) AND OSPHD AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

EXEMPTION INCLUDE BUT ARE NOT LIMITED TO:
1. FURNITURE (EXCEPT STORAGE CABINETS).
2. TEMPORARY OR MOVABLE EQUIPMENT.
3. EQUIPMENT WEIGHING LESS THAN 400 POUNDS WITH A CENTER OF MASS 4 FEET OR LESS ABOVE THE ADJACENT FLOOR LEVEL.
4. EQUIPMENT WEIGHING 20 POUNDS OR LESS, OR A DISTRIBUTION SYSTEM WEIGHING 5 POUNDS PER FOOT OR LESS.

CONCRETE
1007N001

1. CONCRETE SHALL ATTAIN 28 DAY COMPRESSIVE STRENGTH AS REQUIRED IN NOTE #28. SLUMP SHALL BE 4 INCHES ± 1 INCH WITHOUT ADMIXTURES UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
2. CONCRETE MIX DESIGNS SHALL BE PREPARED ACCORDING TO ACI 318 CHAPTER 26.4 AND ACI 301 SECTION 4, REVIEWED BY OWNER'S TESTING LABORATORY AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
3. CEMENTITIOUS MATERIALS:
   CEMENT SHALL CONFORM TO ASTM C-150 TYPE II OR V.
   FLY ASH SHALL CONFORM TO ASTM C-618, MAX. QUANTITY OF FLY ASH BY MASS SHALL BE 25% UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
   SLAG SHALL CONFORM TO ASTM C989: MAX. QUANTITY OF SLAG BY MASS SHALL BE 25% UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
   TERNARY SYSTEMS ARE PROHIBITED.
4. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33 FOR NORMAL WEIGHT CONCRETE AND ASTM C-330 FOR LIGHTWEIGHT CONCRETE.
5. NON-SHRINK GROUT OR DRYPACK SHALL CONSIST OF A PREMIXED NONMETALLIC FORMULA.
6. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 UNO. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A-706 GRADE 60. CONTRACTOR SHALL SUBMIT REBAR MILL CERTIFICATES. REINFORCING STEEL IN SPECIAL REINFORCED SHEAR WALLS OR MOMENT FRAMES, EXCEPT TIES AND HOOPS, SHALL CONFORM TO ASTM A-706.
7. ALL PREHEATING AND WELDING OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH AWS D1.4 LATEST EDITION AND SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED LABORATORY. CONTRACTOR SHALL FURNISH WPS FOR ALL REBAR WELDING TO THE LABORATORY.
8. REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
9. WIRE FABRIC SHALL CONFORM TO ASTM A1064.
10. DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF BARS LISTED AND DENOTE CLEAR COVERAGE. NON-PRESTRESSED, CAST-IN-PLACE CONCRETE COVERAGE SHALL BE AS FOLLOWS, UNO:
    CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS)--------- 3"
    CONCRETE EXPOSED TO GROUND OR WEATHER BUT PLACED IN FORMS:
    #5 AND SMALLER---------- 1-1/2"
    #6 AND LARGER---------- 2"
    BEAMS & COLUMNS (TIES)---------- 1-1/2"
    BEAMS & COLUMNS (MAIN REINFORCING)---------- 2"
    CAST-IN-PLACE WALLS (EXTERIOR FACE & SOIL SIDE)---------- SEE ABOVE
    CAST-IN-PLACE WALLS (INTERIOR FACE-#11 & SMALLER)---------- 3/4"
    TILT-UP WALLS---------- SEE DETAILS
    SLABS (ON FORMS)---------- 3/4"
    SLABS (ON GROUND)---------- 2" CLEAR FROM TOP
11. SPLICES IN CONTINUOUS REINFORCEMENT SHALL BE LAPPED UNO, SEE SCHEDULE THIS SHEET. SPLICES IN ADJACENT BARS SHALL BE GREATER THAN 5'-0" APART. SPLICE CONTINUOUS BARS IN SOIL-BEARING GRADE BEAMS, STRUCTURAL SLABS ON GRADE AND MAT FOUNDATIONS AS FOLLOWS UNO: TOP BARS AT CENTERLINE OF SUPPORT; BOTTOM BARS AT MID-SPAN. SPLICE CONTINUOUS BARS IN ELEVATED SLABS AND BEAMS, ETC. AS FOLLOWS UNO: TOP BARS AT MID-SPAN; BOTTOM BARS AT CENTERLINE OF SUPPORT. ALL BAR SIZE #14 AND LARGER SHALL BE CONTINUOUS FOR FULL LENGTH SHOWN OR SPLICED WITH MECHANICAL COUPLERS AS NOTED IN DETAILS. SPLICES IN WWF SHALL BE 1-1/2 MESHES WIDE.
12. THE MINIMUM CLEAR SPACING BETWEEN PARALLEL BARS IN A LAYER SHALL NOT BE LESS THAN THE LARGER OF BAR DIAMETER, 1", OR 33% GREATER THAN THE MAXIMUM AGGREGATE SIZE (NOMINAL) WHICHEVER IS GREATEST. THIS REQUIREMENT ALSO APPLIES TO THE CLEAR SPACING BETWEEN DIFFERENT LAYERS OF PARALLEL BARS AND TO THE CLEAR DISTANCE BETWEEN A CONTACT LAP SPLICE AND ADJACENT SPLICES OR BARS.
13. ALL HOOKS SHALL BE STANDARD HOOKS UNLESS OTHERWISE SHOWN OR NOTED. AT WALLS, PROVIDE HOOKS AT ENDS OF ALL REINFORCING AT ENDS, CORNERS AND INTERSECTIONS, UNO.
14. CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SAND BLASTING, OR RAKING THE SURFACE TO PROVIDE 1/4" DEEP DEFORMATIONS.
15. REMOVE ALL DEBRIS FROM FORMS BEFORE CASTING ANY CONCRETE.
16. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
17. ANCHOR BOLTS (AB'S) CAST IN CONCRETE FOR WALL SILL AND LEDGER APPLICATIONS SHALL BE HEADED BOLTS WITH CUT THREADS CONFORMING TO ASTM F1554, UNO. REFER TO "WOOD" NOTES FOR ADDITIONAL REQUIREMENTS FOR BOLTS IN CONTACT WITH PRESSURE TREATED OR FIRE RETARDANT MATERIAL. REFER TO "STRUCTURAL STEEL" NOTES FOR REQUIREMENTS FOR ANCHOR RODS (AR'S) CAST IN CONCRETE FOR COLUMN BASE PLATE AND STEEL EMBED APPLICATIONS.
18. WALLS SHALL BE CAST IN HORIZONTAL LAYERS OF 2'-0" MAXIMUM DEPTH.
19. CONCRETE IN WALLS, PIERS OR COLUMNS SHALL SET AT LEAST 2 HOURS BEFORE PLACING CONCRETE IN BEAMS, SPANDRELS, OR SLABS SUPPORTED THEREON.
20. HORIZONTAL WALL BARS IN MULTI-CURTAIN WALLS SHALL BE STAGGERED.
21. DOWEL ALL VERTICAL REINFORCING IN WALLS AND COLUMNS FROM FOUNDATION WITH SAME SIZE BAR.
22. CONSOLIDATE CONCRETE PLACED IN FORMS BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING OR TAMPING. USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF ACI 309 TO SUIT THE TYPE OF CONCRETE AND PROJECT CONDITIONS. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES HOPPERS AND CHUTES OR TRUNKS OF VARIABLE LENGTHS SHALL BE USED SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 6 FEET.
23. NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE CONCRETED.
24. ADDITIONAL REINFORCING IN PRECAST OR TILT-UP PANELS REQUIRED FOR LIFTING STRESSES SHALL BE SUPPLIED BY CONTRACTOR.
25. PROVIDE #4x4'-0" DIAGONAL REINFORCING AT EACH REINFORCING LAYER OF SLAB AT ALL RE-ENTRANT CORNERS TYPICAL UNO. THIS APPLIES TO SLAB ON GRADE, CONCRETE OVER METAL DECK, AND ELEVATED STRUCTURAL SLAB CONDITIONS.
26. ALL SAW CUTTING SHALL BE DONE AFTER INITIAL SET HAS OCCURRED TO AVOID TEARING OR DAMAGE BY THE SAW BLADE, BUT BEFORE INITIAL SHRINKAGE HAS OCCURRED.
27. NOTIFY STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS BEFORE PLACING ANY CONCRETE.
28. CONCRETE STRENGTHS & MIX PROPERTIES:

ITEM	F'C @ 28 DAYS	MAX AGGR SIZE	WEIGHT	MAX W/CM* RATIO
A. SLAB ON GRADE	3500 PSI	1"	NW	0.45
SITE & MISCELLANEOUS - SEE CIVIL OR ARCH DRAWINGS				

* W/CM = WATER : CEMENTITIOUS MATERIAL RATIO

LAP SPLICE LENGTHS FOR GRADE 60 REINFORCING BARS IN TENSION (Lst) — ACI 318 CBC/IBC
3001N002
(ALL LENGTHS SHOWN ARE IN INCHES)

f'c= 3500 PSI CONC

SPLICE CLASS	REINF LOCATION	#3	#4	#5	#6	#7	#8	#9	#10	#11
B	TOP	26	35	43	52	75	86	97	109	121
	OTHER	20	27	33	40	58	66	75	84	93

DEFINITIONS:
L_D = DEVELOPMENT LENGTH OF DEFORMED BARS IN TENSION
L_{ST} = TENSION LAP SPLICE LENGTH
TOP = HORIZONTAL REINFORCEMENT LOCATED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.

NOTES:
1. SCHEDULE APPLIES TO NORMAL WEIGHT CONCRETE WITH UNCOATED, GRADE 60 REINFORCING STEEL FOR #3 BARS AND LARGER.
2. ROUND UP TO THE NEAREST WHOLE NUMBER FOR ALL LENGTH CALCULATIONS.
3. Lst SHALL BE 12 INCHES MINIMUM.
4. WHERE EPOXY-COATED BARS ARE USED, MULTIPLY LAP LENGTHS BY 1.2, BUT WHERE EPOXY-COATED BARS HAVE CLEAR COVER LESS THAN 3 BAR DIA. OR CLEAR SPACING LESS THAN 6 BAR DIA., MULTIPLY LAP LENGTHS BY 1.31 FOR TOP REBAR AND 1.5 FOR OTHER REBAR.
5. WHEN LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LAP LENGTHS BY 1.33.
6. WHERE CLEAR SPACING OF BARS BEING SPLICED IS LESS THAN 2 BAR DIA. OR WHERE CLEAR COVER OF BARS BEING SPLICED IS LESS THAN 1 BAR DIA., MULTIPLY LAP LENGTHS BY 1.50, UNO.
7. WHERE CLASS A LAP SPLICE IS NOTED IN DETAIL, DIVIDE LENGTHS ABOVE BY 1.30.
8. DEVELOPMENT LENGTH OF DEFORMED BARS, Ld, SHALL BE CALCULATED BY DIVIDING THE LENGTH ABOVE BY 1.30. Ld SHALL BE 12 INCHES MINIMUM.
9. WHEN SPLICING DIFFERENT SIZE BARS, Lst SHALL BE THE GREATER OF Ld OF THE LARGER BAR AND Lst OF THE SMALLER BAR.
10. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. INCREASE LAP LENGTHS BY 20 PERCENT FOR A THREE-BAR BUNDLE AND 33 PERCENT FOR A FOUR-BAR BUNDLE
11. THE LENGTHS SHOWN IN THE SCHEDULE SHALL BE INCREASED BY ALL APPLICABLE MULTIPLIERS LISTED IN THE NOTES ABOVE.

POST-INSTALLED ANCHOR TESTING CRITERIA
3007N002

1. EXPANSION ANCHOR TESTING SHALL COMPLY WITH INSTALLATION TORQUE VALUES PROVIDED IN MANUFACTURER'S EVALUATION REPORT. EPOXY AND SCREW ANCHOR TESTING SHALL COMPLY WITH TENSION TEST VALUES SPECIFIED IN DRAWINGS. TESTING FREQUENCY SHALL COMPLY WITH CBC SECTION 1910A.5.3.
2. APPLY PROOF TEST LOADS TO EXPANSION ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH TO APPLY THE TEST LOAD.
3. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
4. TEST EQUIPMENT (INCLUDING TORQUE WRENCHES) IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
5. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   A. HYDRAULIC RAM METHOD: THE ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT FOR A MINIMUM OF 15 SECONDS AT THE APPLICABLE TEST LOAD. FOR EXPANSION AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
   B. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
      EXPANSION TYPE:
      - ONE-QUARTER (1/4) TURN OF THE NUT FOR 3/8"Ø SLEEVE ANCHORS.
      - ONE-HALF (1/2) TURN OF THE NUT FOR 1/4"Ø AND LARGER ANCHORS.
6. PROVIDE SPECIAL INSPECTION AS NOTED IN THE ICC REPORT.
7. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE AND INSTALLED BY THE SAME TRADE SHALL BE TESTED, UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. ANCHORS PREVIOUSLY TESTED PRIOR TO FAILED TEST SHALL NOT BE RETESTED.
8. TORQUE EXPANSION ANCHORS TO THE VALUES SHOWN BELOW:

CONCRETE EXPANSION ANCHOR TORQUE TEST VALUE (FT-LB)

DIAMETER	HILTI KB-TZ2		SIMPSON STRONG BOLT 2		DEWALT POWER-STUD+ SD2	DEWALT POWER-STUD+ SD4 & SD6
	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL
1/4"	4	6	4	4	X	6
3/8"	30	30	30	30	20	25
1/2"	50	40	60	65	40	40
5/8"	40	60	90	80	60	60
3/4"	110	125	150	150	110	110
1"	185	185	230	X	X	X

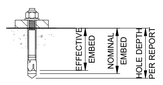
MASONRY EXPANSION ANCHOR TORQUE TEST VALUE (FT-LB)

DIAMETER	HILTI KB-TZ2		SIMPSON WEDGE-ALL		DEWALT POWER-STUD+ SD1	
	CARBON STEEL	STAINLESS STEEL	CARBON STEEL		CARBON STEEL	
1/4"	4	6	X		X	
3/8"	15	15	20		20	
1/2"	25	25	35		40	
5/8"	30	35	55		50	
3/4"	50	50	120		X	

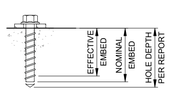
POST-INSTALLED ANCHORS
3007N001

1. FOR CONCRETE CONSTRUCTION, POST-INSTALLED ANCHORS SHALL BE ONE OF THE FOLLOWING:
   A. ADHESIVE ANCHORS FOR THRD ROD & REBAR:
      a. HILTI HIT-HY 200 PER ESR-3187
      b. HILTI HIT-RE500 V3 PER ESR-3814
      c. SIMPSON SET-XP PER ESR-2508
      d. SIMPSON SET-3G PER ESR-4057
      e. DEWALT PURE 110+ ESR-3298
   B. EXPANSION ANCHORS:
      a. HILTI KB-TZ2 PER ESR-4266
      b. SIMPSON STRONG BOLT 2 PER ESR-3037
      c. DEWALT POWER-STUD+ SD2, SD4 OR SD6 AS NOTED PER ESR-2502
   C. SCREW ANCHORS:
      a. HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3027
      b. SIMPSON TITEN HD PER ESR-2713
      c. DEWALT SCREWBOLT+ PER ESR-3889
2. FOR GROUT-FILLED MASONRY CONSTRUCTION, POST-INSTALLED ANCHORS SHALL BE ONE OF THE FOLLOWING:
   A. ADHESIVE ANCHORS FOR THRD ROD & REBAR:
      a. HILTI HIT-HY 270 PER ESR-4143
      b. SIMPSON SET-XP PER IAPMO UES ER-265
      c. DEWALT AC 100+ GOLD PER ESR-3200
   B. EXPANSION ANCHORS:
      a. HILTI KB-TZ2 PER ESR-4561
      b. SIMPSON STRONG-BOLT (2) PER IAPMO ER-240
      c. DEWALT POWER-STUD+ SD1 PER ESR-2966
   C. SCREW ANCHORS:
      a. HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3056
      b. SIMPSON TITEN HD PER ESR-1056
      c. DEWALT SCREWBOLT+ PER ESR-4042
3. ANCHOR TYPE, SIZE & EMBEDMENT SHALL BE AS INDICATED IN DRAWINGS. POST-INSTALLED ANCHORS FOR REPAIR SHALL BE EVALUATED ON A CASE BY CASE BASIS. NOTIFY STRUCTURAL ENGINEER FOR REPAIRS.
4. ALL EMBEDMENT DEPTHS CALLED OUT IN DRAWINGS REFER TO EFFECTIVE EMBEDMENT UNLESS OTHERWISE NOTED. SEE DIAGRAM BELOW AND ICC REPORTS.
5. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE EVALUATION REPORT. PROVIDE MINIMUM EMBEDMENT PROVIDED IN ICC ESR REPORT UNLESS NOTED OTHERWISE.
6. PROVIDE SPECIAL INSPECTION AS INDICATED IN THE STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING.
7. WHEN INSTALLING POST-INSTALLED ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN. DO NOT INSTALL ANCHORS WITHIN 1 1/2" OF CMU HEAD JOINTS. DO NOT INSTALL ANCHORS IN PRESTRESSED CONCRETE ELEMENTS.
8. ANCHORS INSTALLED FROM THE BOTTOM INTO METAL DECK WITH CONCRETE SHALL BE INSTALLED IN THE CENTER OF THE LOW FLUTE OF THE DECKING UNLESS NOTED OTHERWISE IN EVALUATION REPORT. THE DECKING SHALL HAVE A MINIMUM THICKNESS OF 20 GAUGE. THE MINIMUM THICKNESS OF THE CONCRETE ABOVE THE HIGH FLUTE OF THE METAL DECK SHALL BE AS INDICATED IN THE EVALUATION REPORT. SEE EVALUATION REPORT FOR ADDITIONAL REQUIREMENTS, INCLUDING MINIMUM DIMENSIONS FOR FLUTE WIDTH AND DEPTH.
9. THE CONCRETE SHALL HAVE ATTAINED ITS MINIMUM DESIGN STRENGTH PRIOR TO INSTALLATION OF THE ANCHORS.
10. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION PER ACI 318, CHAPTER 17.
11. INSTALLER CERTIFICATION AND INSPECTION IS REQUIRED FOR HORIZONTAL AND UPWARDLY INCLINED ADHESIVE ANCHORS SUBJECTED TO SUSTAINED TENSION LOADING IN ACCORDANCE WITH ACI 318, CHAPTER 17.
12. IF TEMPERATURE OF BASE MATERIAL AT TIME OF ADHESIVE ANCHOR INSTALLATION IS 45 DEGREES FARENHEIT OR LOWER, AN "ACRYLIC" OR COLD WEATHER ADHESIVE IS REQUIRED. USE DEWALT AC200+, SIMPSON AT-XP, OR HILTI HIT-HY200 WHEN THIS OCCURS.
13. THE TESTING OF THE ANCHORS SHALL BE DONE BY A QUALIFIED TESTING AGENCY AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE GOVERNING AGENCY AND ARCHITECT/STRUCTURAL ENGINEER. SEE NOTES ON THIS SHEET FOR TESTING CRITERIA.

INSTALLED ANCHOR DIAGRAMS



EXPANSION ANCHOR



SCREW ANCHOR

STRUCTURAL STEEL
5005N001

1. FABRICATION, ERECTION AND MATERIALS SHALL CONFORM WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS AND THE AISC CODE OF STANDARD PRACTICE, LATEST EDITIONS ADOPTED BY THE BUILDING CODE SPECIFIED IN THE DESIGN CRITERIA NOTES, UNO.
2. ALL HOT ROLLED STEEL SHAPES, PLATES AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM A6, UNO IN THE STRUCTURAL DRAWINGS. STRUCTURAL STEEL SHALL BE AS FOLLOWS:
   A. WIDE FLANGE AND WT SHAPES: ASTM A992
   B. M- AND S- SHAPES: ASTM A572 GRADE 50
   C. C- AND MC- SHAPES: ASTM A992
   D. L- SHAPES: ASTM A572 GRADE 50
   E. ROUND HSS: ASTM A500 GRADE C (Fy = 50 KSI)
   F. RECTANGULAR HSS: ASTM A500 GRADE C (Fy = 50 KSI)
   G. PIPE: ASTM A53, GRADE B (Fy = 35 KSI)
   H. BASE PLATES UP TO 4" THICK: ASTM A572 GRADE 50
   I. ALL OTHER PLATE MATERIAL: ASTM A572 GRADE 50, UNO
   J. BUILT UP COLUMNS: ASTM A572 GRADE 50
   K. PLATE GIRDERS: ASTM A572 GRADE 50
   L

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

STRUCTURAL SPECIAL INSPECTIONS AND TESTING

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

110TN001

1. SPECIAL INSPECTIONS AND TESTING SHALL BE PROVIDED BY A TESTING AND INSPECTION AGENCY, EMPLOYED BY THE OWNER (OR OWNER'S AUTHORIZED AGENT), AND APPROVED BY THE BUILDING OFFICIAL TO PROVIDE SPECIAL INSPECTIONS AND TESTING FOR THE PARTICULAR TYPE OF CONSTRUCTION.
2. TABLES OF SPECIAL INSPECTIONS AND TESTING ARE DERIVED FROM THE STRUCTURAL PROVISIONS OF THE CBC AND REFERENCED STANDARDS AND ARE FOR REFERENCE ONLY. THE INCLUDED TABLES ARE PROVIDED FOR THE CONVENIENCE OF THE OWNER, TESTING AGENCY AND CONTRACTOR IN DEVELOPING THE SCOPE OF WORK FOR REQUIRED TESTING AND INSPECTION OF STRUCTURAL MATERIALS AND COMPONENTS. FINAL DEFINITION OF THIS SCOPE OF WORK IS TO BE DETERMINED BY THE TESTING AGENCY AND THE OWNER (OR OWNER'S AUTHORIZED AGENT).
3. FREQUENCY OF SPECIAL INSPECTIONS AND TESTING SHALL BE, AT A MINIMUM, AS NOTED FOR THE INDIVIDUAL ELEMENTS WITHIN THE TABLES BELOW. THE CONTRACTOR SHALL COORDINATE TIMING OF SPECIAL INSPECTIONS AND TESTING WITH THE SPECIAL INSPECTION AND TESTING AGENCY.
4. PRIOR TO THE START OF CONSTRUCTION, THE TESTING AND INSPECTION AGENCY SHALL PROVIDE DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION, IN ACCORDANCE WITH CBC SECTION 1704A.2.1.
5. THE TESTING AND INSPECTION AGENCY SHALL SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER OF RECORD AND THE CONTRACTOR, PER CBC SECTION 1704A.2.4. THE REPORTS SHALL INDICATE WHETHER WORK INSPECTED OR TESTED CONFORMED TO THE APPROVED CONSTRUCTION DOCUMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER OF RECORD.
6. SPECIAL INSPECTION AND TESTING RECORDS SHALL BE RETAINED BY THE CONTRACTOR ON SITE UNTIL COMPLETION OF CONSTRUCTION.
7. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT TO THE BUILDING OFFICIAL ACKNOWLEDGING RESPONSIBILITY FOR CONSTRUCTION OF THE MAIN LATERAL-FORCE RESISTING SYSTEM PRIOR TO COMMENCEMENT OF THAT WORK AS REQUIRED BY CBC SECTION 1704A.4.
8. THE OWNER OR THE OWNER'S AUTHORIZED AGENT SHALL SUBMIT TO THE BUILDING OFFICIAL, A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND TESTS PER CBC SECTION 1704A.2.4, AND REPORTS AND CERTIFICATES PER CBC SECTION 1704A.5.
9. ALL SOILS AND FOUNDATION EXCAVATION INSPECTIONS SHALL BE BY THE GEOTECHNICAL ENGINEER OF RECORD, OR A GEOTECHNICAL FIRM HIRED BY THE OWNER PER CBC SECTION 1705A.6.
10. SPECIAL INSPECTION IS REQUIRED FOR ALL SHOP FABRICATED MEMBERS OR ASSEMBLIES UNLESS WAIVED PER THE EXCEPTIONS IN CBC SECTION 1704A.2.5.
11. DEFINITIONS:
    - A. CONTINUOUS - SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS CONTINUOUSLY PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.
    - B. PERIODIC - SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
    - C. QUALITY ASSURANCE (QA) - MONITORING AND INSPECTION TASKS PERFORMED BY AN AGENCY OR FIRM OTHER THAN THE FABRICATOR OR ERECTOR TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED BY THE FABRICATOR AND ERECTOR MEET THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. QUALITY ASSURANCE INCLUDES THOSE TASKS DESIGNATED 'SPECIAL INSPECTION' BY THE APPLICABLE CODE.
    - D. QUALITY CONTROL (QC) - CONTROLS AND INSPECTIONS IMPLEMENTED BY THE FABRICATOR OR ERECTOR, AS APPLICABLE, TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
    - E. OBSERVE (O) - OBSERVE THESE ITEMS ON A RANDOM BASIS (DAILY FOR LFRS). OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
    - F. PERFORM (P) - PERFORM THOSE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.
    - G. DOCUMENT (D) - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.
12. SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED DURING CONSTRUCTION ON THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS AS REQUIRED BY CBC CHAPTER 17A, THE TABLES LISTED BELOW, AND THE JURISDICTION'S SPECIAL INSPECTION AND TESTING FORM. IF DISCREPANCIES ARE NOTED, CONTACT THE SEOR. ALL EXCEPTIONS INCLUDED IN CBC CHAPTER 17A ARE PERMITTED TO BE USED.
    - CONCRETE CONSTRUCTION
    - MASONRY CONSTRUCTION - LEVEL 3 (POST-INSTALLED ANCHORS)
    - STEEL CONSTRUCTION

CONCRETE CONSTRUCTION - REQUIRED SPECIAL INSPECTIONS AND TESTS

CBC TABLE 1705A.3

110TN301

TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD [a]
1. INSPECT AND TEST REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.			ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3, 26.13.1, 26.13.3.2, 26.13.3.3
A. REINFORCEMENT IN SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS.	X	-	
B. ALL OTHER REINFORCEMENT	-	X	
2. REINFORCING BAR WELDING:			AWS D1.4 ACI 318: 18.2.8, 25.5.7, 26.6.4, 26.13.1.4, 26.13.3.2, 26.13.3.3
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X	
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; NOT DEFINED IN 2.D OR 2.E	-	X	
C. INSPECT ALL OTHER WELDS			
D. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS AND COUPLING BEAMS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	-	
E. SHEAR REINFORCEMENT.	X	-	
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2, 26.7.2, 26.8.2, 26.13.1, 26.13.3.3
4. INSPECT AND TEST ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. [b]			
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 17.8.2.4, 26.7.2, 26.13.1, 26.13.3.2
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	-	X	ACI 318: 17.8.2, 26.7.2, 26.13.1, 26.13.3.3
5. VERIFY USE OF REQUIRED DESIGN MIX.	X	-	ACI 318: CH. 19, 26.4, 26.13.3.2
6. PRIOR TO AND DURING CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: 26.4, 26.5, 26.12
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5, 26.13 ACI 506: 3.4
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5, 26.13.3.3
9. INSPECT PRESTRESSED CONCRETE FOR:			ACI 318: 26.10.2, 26.13.1, 26.13.3.2
A. APPLICATION OF PRESTRESSING FORCES	X	-	
B. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-	
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: Ch. 26.9, 26.13.1, 26.13.3.3
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:			ACI 318: 26.13.1.3 ACI 550.5
A. INSTALLATION OF THE EMBEDDED PARTS.	X	-	
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	X	-	
C. COMPLETION OF CONNECTIONS IN THE FIELD.	X	-	
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	-	X	ACI 318: 26.13.1.3
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.10.2, 26.11.2, 26.13.3.3
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(b), 26.13.3.3
15. BATCH PLANT - QUALITY AND QUANTITY OF MATERIALS USED IN TRANSIT-MIXED CONCRETE AND BATCHED AGGREGATES, AT LOCATION WHERE MATERIALS ARE MEASURED. [c]	X	-	
16. CONCRETE PREPLACEMENT INSPECTION - CONCRETE SHALL NOT BE PLACED UNTIL THE FORMS AND REINFORCEMENT HAVE BEEN INSPECTED, ALL PREPARATIONS FOR THE PLACEMENT HAVE BEEN COMPLETED, AND THE PREPARATIONS HAVE BEEN CHECKED BY THE INSPECTOR OF RECORD.			
17. PLACING RECORD - A RECORD SHALL BE KEPT ON THE SITE OF THE TIME AND DATE OF PLACING THE CONCRETE IN EACH PORTION OF THE STRUCTURE. SUCH RECORD SHALL BE KEPT UNTIL THE COMPLETION OF THE STRUCTURE AND SHALL BE OPEN TO THE INSPECTION OF THE ENFORCEMENT AGENCY.			
18. COMPOSITE CONSTRUCTION CORES - COMPOSITE CONSTRUCTION CORES SHALL BE TAKEN AND TESTED IN ACCORDANCE WITH CBC SECTION 1910A.4			

A. WHERE APPLICABLE, SEE ALSO SECTION 1705.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.

C. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.

D. SEE 1705A.3.3 FOR WAIVER/EXCEPTIONS.

MASONRY CONSTRUCTION - POST-INSTALLED ANCHORS - LEVEL 3 REQUIRED SPECIAL INSPECTIONS AND TESTS

TMS 602 TABLE 3 AND 4

110TN400

INSPECTION TASK	FREQUENCY		REFERENCE FOR CRITERIA
	CONTINUOUS	PERIODIC	
1. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:			
A. TYPE, SIZE, AND LOCATION OF POST-INSTALLED ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	X	-	ICC/IAPMO REPORT

STEEL CONSTRUCTION - REQUIRED SPECIAL INSPECTIONS & TESTS

CBC TABLE 1705A.2.1

110TN508

TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. MATERIAL IDENTIFICATION AND TESTING OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	RCSC: 1.5, AISC 360: SECTION A3.3, J3.1 AND APPLICABLE ASTM MATERIAL STANDARDS
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	-	X	RCSC: 1.5 & 2.1, AISC 360: A3.3 & N3.2
C. TESTING OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS	-	-	RCSC: 7.2, APPLICABLE ASTM MATERIAL STANDARDS
2. INSPECTION OF HIGH-STRENGTH BOLTING			
A. SNUG-TIGHT JOINTS	-	X	RCSC: 7-9, AISC 360: J3.1, J3.2, M2.5 & N5.6
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	-	X	
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING, OR CALIBRATED WRENCH METHODS OF INSTALLATION	X	-	
3. MATERIAL IDENTIFICATION AND TESTING OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK			
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	-	X	AISC 360, SECTION A3.1
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENT	-	X	APPLICABLE ASTM MATERIAL STANDARDS
C. MANUFACTURER'S CERTIFIED TEST REPORTS	-	X	AISC 360: A3.1 & N3.2
D. TESTING OF UNIDENTIFIED STEEL	-	-	APPLICABLE ASTM MATERIAL STANDARDS
4. MATERIAL IDENTIFICATION OF WELDING CONSUMABLES AND TESTING OF WELDED ELEMENTS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	AISC 360, A3.5 & N3.2 AND APPLICABLE AWS AS DOCUMENTS
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	-	X	AISC 360: N3.2
C. NONDESTRUCTIVE TESTING OF WELDED JOINTS	-	-	AISC 360: N5.5
5. INSPECTION OF WELDING			
A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:			
a. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	X	-	AISC 360: J2, M2.4, & M4.5 AWS D1.1 AWS D1.8
b. MULTIPASS FILLET WELDS	X	-	
c. SINGLE-PASS FILLET WELDS > 5/16"	X	-	
d. PLUG AND SLOT WELDS	X	-	
e. SINGLE-PASS FILLET WELDS ≤ 5/16"	-	X	
f. FLOOR AND ROOF DECK WELDS	-	X	AWS D1.3, SDI QA/QC
g. END-WELDED STUDS	-	X	AWS D1.1
h. WELDED SHEET STEEL FOR COLD-FORMED FRAMING MEMBERS	-	X	AWS D1.3
B. REINFORCING STEEL	-	-	TABLE 1705A.3, ITEM 2
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:			
A. DETAILS SUCH AS BRACING AND STIFFENING	-	X	AISC 360: N5.8
B. MEMBER LOCATIONS	-	X	
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	-	X	

1. WHERE APPLICABLE, SEE ALSO SECTION 1705A.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

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WAME PROJECT #: 22-023

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Account No.: 9557960
HCAI No.: S241919-34-00
Bldg No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: STRUCTURAL SPECIAL INSPECTIONS & TESTING

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. S1.11
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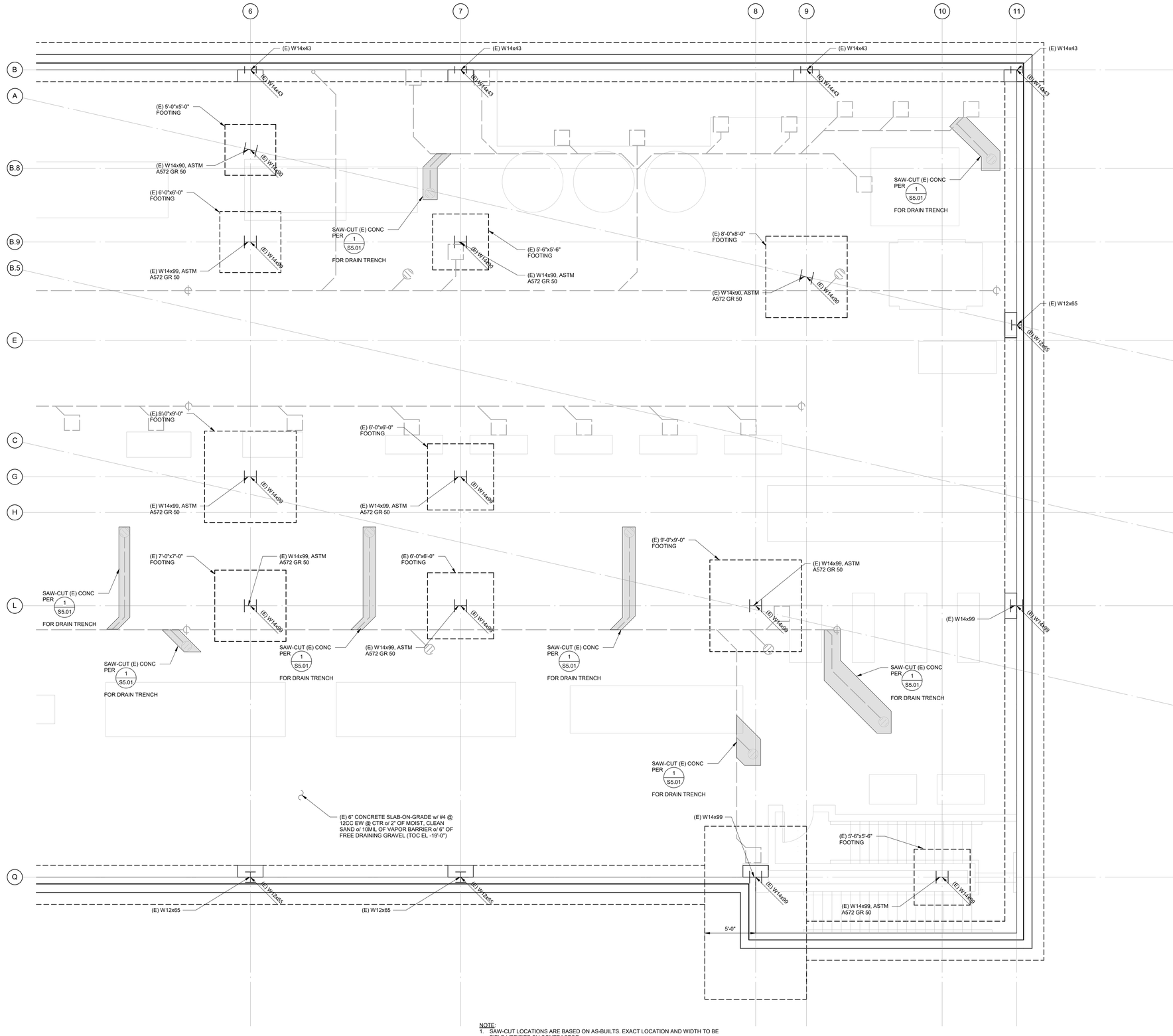

NOTE:
1. SAW-CUT LOCATIONS ARE BASED ON AS-BUILTS. EXACT LOCATION AND WIDTH TO BE FIELD VERIFIED BY CONTRACTOR.

STRUCTURAL - PARTIAL BASEMENT FLOOR PLAN EAST

1/4" = 1'-0"

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Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL BASEMENT FLOOR PLAN EAST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. S2.01
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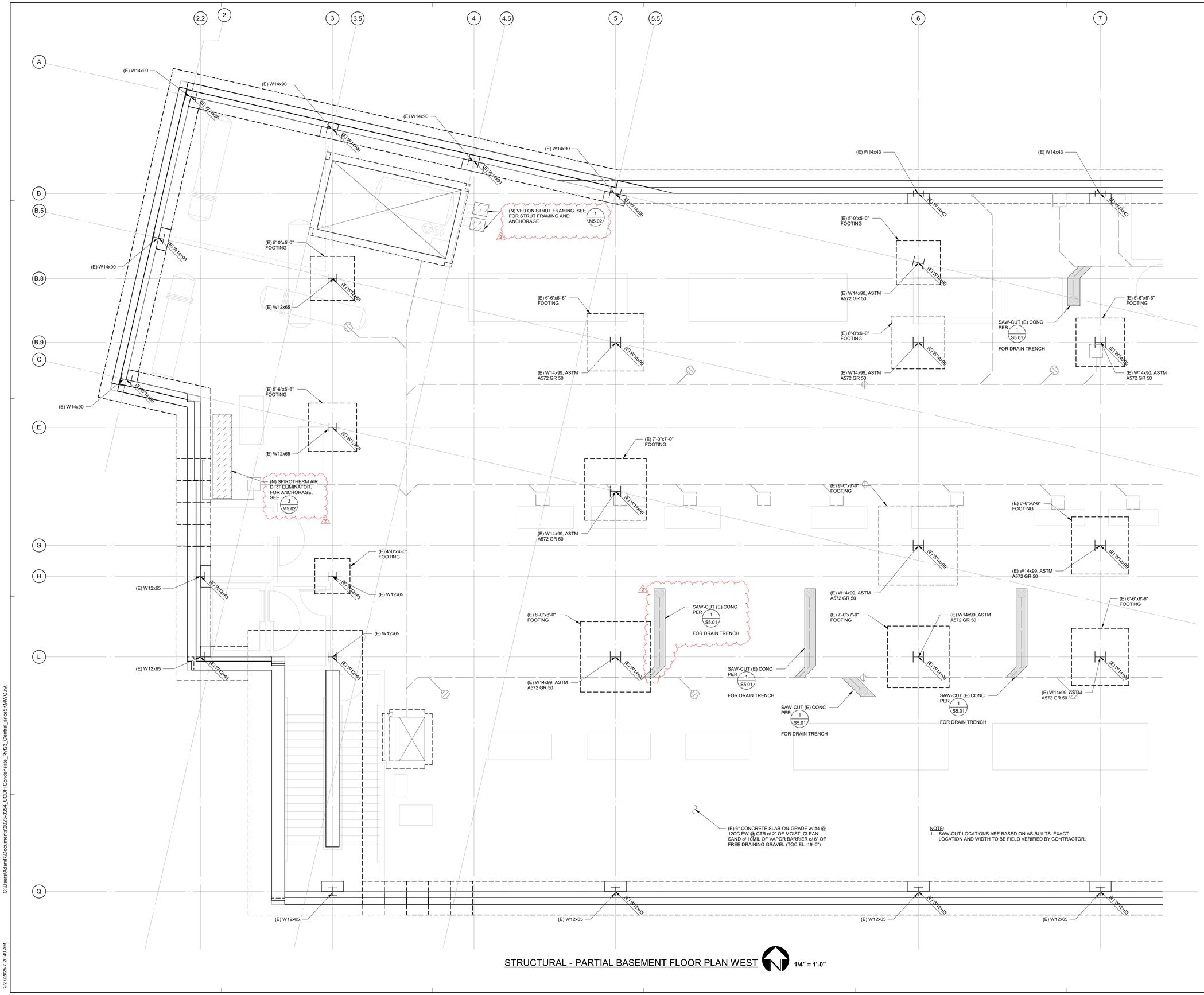

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HCAI No.: S241919-34-00
Bldg No.: HCAI - BLD-0144, UCDH - 073
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Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL BASEMENT FLOOR PLAN WEST

Arch.\Engr.: ADAM DAVIS	FD&C Job No.: JOB NO.	SHEET NO.: S2.02
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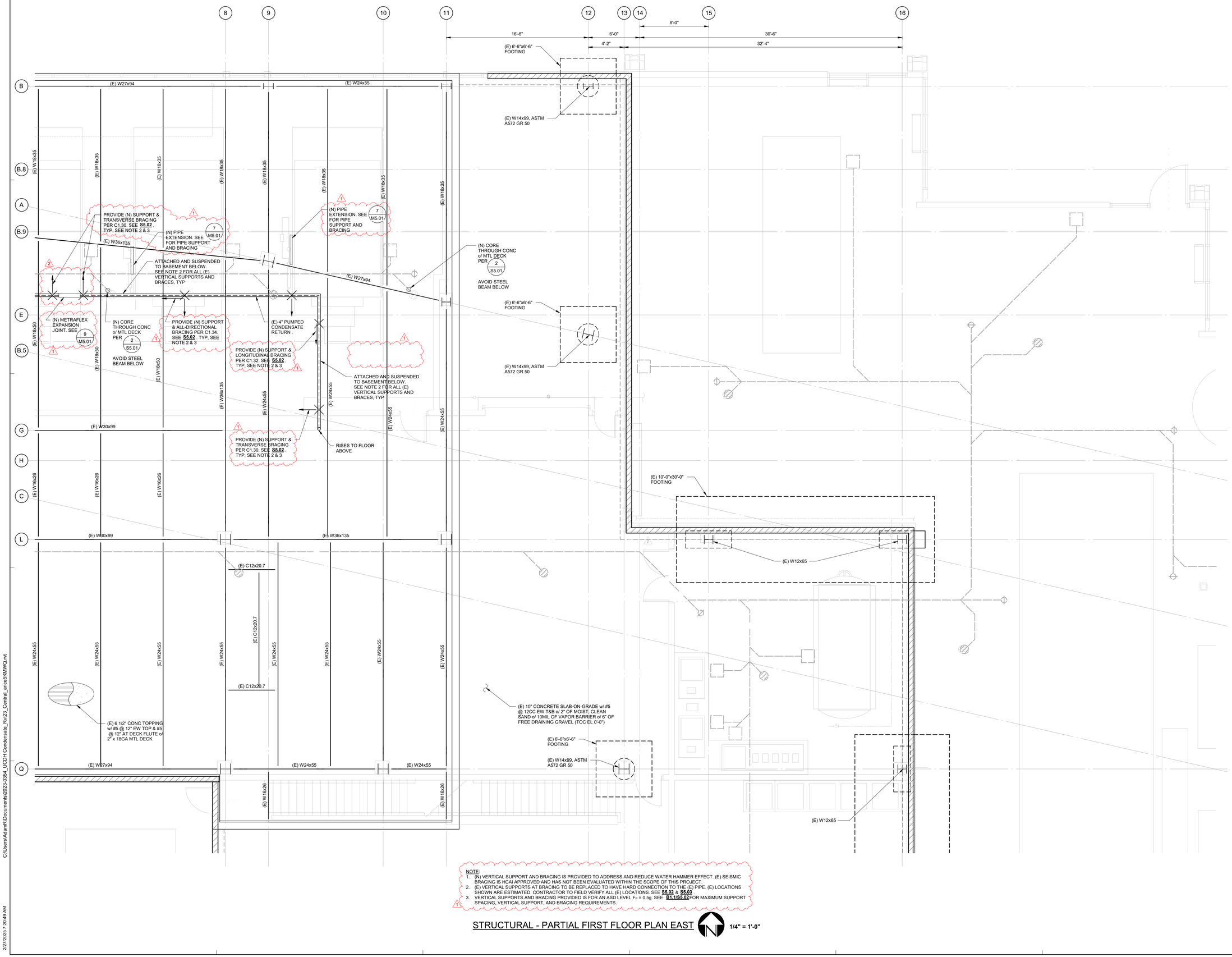

NOTE:
1. (N) VERTICAL SUPPORT AND BRACING IS PROVIDED TO ADDRESS AND REDUCE WATER HAMMER EFFECT. (E) SEISMIC BRACING IS HCAI APPROVED AND HAS NOT BEEN EVALUATED WITHIN THE SCOPE OF THIS PROJECT.
2. (E) VERTICAL SUPPORTS AT BRACING TO BE REPLACED TO HAVE HARD CONNECTION TO THE (E) PIPE. (E) LOCATIONS SHOWN ARE ESTIMATED. CONTRACTOR TO FIELD VERIFY ALL (E) LOCATIONS. SEE **S5.02** & **S5.03**
3. VERTICAL SUPPORTS AND BRACING PROVIDED IS FOR AN ASD LEVEL F_P = 0.5g. SEE **B1.1/S5.02** FOR MAXIMUM SUPPORT SPACING, VERTICAL SUPPORT, AND BRACING REQUIREMENTS.

STRUCTURAL - PARTIAL FIRST FLOOR PLAN EAST

1/4" = 1'-0"

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Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL FIRST FLOOR FRAMING PLAN EAST

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STRUCTURAL - PARTIAL FIRST FLOOR PLAN WEST

1/4" = 1'-0"

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Account No.: 9557960
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Bldg. No.: HCAI - BLD-0144, UCDH - 073
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL FIRST FLOOR FRAMING PLAN WEST

Arch.\Engr.	FD&C Job No.	SHEET NO.
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NOTE:
1. (E) SEISMIC BRACING IS HCAI APPROVED AND HAS NOT BEEN EVALUATED WITHIN THE SCOPE OF THIS PROJECT.
2. ONLY (E) 4" CONDENSATE RETURN PIPE AND SUBSEQUENT SUPPORTS AND BRACES ARE SHOWN. DO NOT DISTURB OTHER PIPES.
3. (E) 4" CONDENSATE RETURN PIPE HAS BEEN SHOWN ONLY FOR REFERENCE AND LOCATION. NO MODIFICATION IN SUPPORT, BRACING, AND THEIR SUBSEQUENT ATTACHMENTS ARE NOT REQUIRED AND ARE NOT WITHIN THE SCOPE OF THIS PROJECT.

STRUCTURAL - PARTIAL SECOND FLOOR PLAN EAST

1/4" = 1'-0"

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WAME PROJECT #: 22-023

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Sheet Title: PARTIAL SECOND FLOOR FRAMING PLAN EAST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
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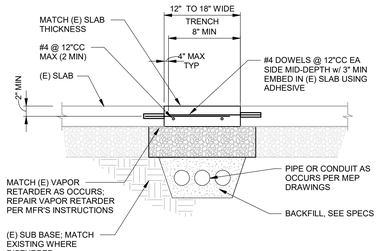
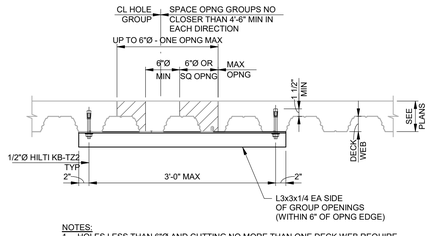


NOTE:
SCAN SLAB PRIOR TO SAWCUTTING TO AVOID ANY EXISTING CONDUIT OBSTRUCTIONS.

DETAIL 1 / S5.01 — NO SCALE
UTILITY TRENCH AT (E) SLAB ON GRADE



NOTES:
1. HOLES LESS THAN 6"Ø AND CUTTING NO MORE THAN ONE DECK WEB REQUIRE NO REINFORCING.
2. IF MORE THAN TWO DECK WEBS ARE CUT IN ADJACENT OPENINGS, SUPPLEMENTAL STEEL FRAMING WILL BE REQUIRED - NOTIFY STRUCTURAL ENGINEER.

DETAIL 2 / S5.01 — NO SCALE
REINF FOR OPENINGS IN (E) METAL DECK w/ FILL

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Sheet Title: DETAILS

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
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MECHANICAL, PLUMBING, AND FIRE PROTECTION PIPE

MASON WEST
1601 E. Miraloma Ave. Placentia, CA 92870
TEL (714) 630 - 0701, www.masonwest.com

Jiefu "Jeff" Zhang, SE
California SE No. S5270

PAGE **TOC-C**

INDIVIDUALLY SUSPENDED STEEL PIPE

SEISMIC SOLID BRACING INSTALLATION REQUIREMENTS

LATERAL FORCE
Fp = 0.5g (ASD)
VERTICAL FORCE
Fpv = 0.375g (ASD)

Fp = 0.5g / Fpv = 0.38g			SOLID (RIGID) BRACING FOR 45° BRACE ANGLE MAXIMUM BRACE SPACING - OPTION #1								
			INSTALLATION DETAILS								
			SEISMIC BRACE			HANGER CONNECTION			BRACE CONNECTION		
PIPE SIZE	WEIGHT	MAX. BRACE SPACING	TRANS.	LONG.	ALL-DIR.	TRANS.	LONG.	ALL-DIR.	TRANS.	LONG./ALL-DIR.	
(DIA.)	(PLF)	(FT)	39 FT°	60 FT°	60 FT°	BRACE	BRACE	BRACE	BRACE	BRACE	
2"	8.2	19'	C1.10	C1.11	C1.12	34D	58E	34F	50E	50D	
2.5	9.1	11'	C1.20	C1.21	C1.22	58E	58F	58G	58C	58E	
3"	10.1	12'	C1.30	C1.21	C1.22	58F	58N	58J	58D	58F	
4"	18.3	14'	C1.30	C1.32	C1.34	63H	63K	63L	63E	63G	
5"	26.8	16'	C1.30	C1.33	C1.45	63K	63M	75N	63F	63J	
6"	34.8	17'	C1.40	C1.43	C1.45	75M	75N	75P	63G	75L	
8"	53.1	19'	C1.41	C1.47	C1.48	75P	75Q	75R	75K	75N	
10"	80.2	20'	C1.46	C1.47	C1.48.1	75Q	75R	75S	75L	75P	
12"	109	20'	C1.46	C1.64	C1.75	75R	100S	125T	75N	125Q	
14"	122	20'	C1.46	C1.64	C1.75	75S	100S	125T	75N	125R	
16"	150	20'	C1.46	C1.64	C1.75	75S	125T	125T	75P	125R	

Fp = 0.5g / Fpv = 0.38g			SOLID (RIGID) BRACING FOR 45° BRACE ANGLE MAXIMUM BRACE SPACING - OPTION #2								
			INSTALLATION DETAILS								
			SEISMIC BRACE			HANGER CONNECTION			BRACE CONNECTION		
PIPE SIZE	WEIGHT	MAX. BRACE SPACING	TRANS.	LONG.	ALL-DIR.	TRANS.	LONG.	ALL-DIR.	TRANS.	LONG./ALL-DIR.	
(DIA.)	(PLF)	(FT)	39 FT°	39 FT°	39 FT°	BRACE	BRACE	BRACE	BRACE	BRACE	
2"	8.2	10'	C1.10	C1.11	C1.12	58D	58D	58D	50A	50B	
2.5	9.1	11'	C1.20	C1.21	C1.22	50B	58E	58E	50B	58C	
3"	10.1	12'	C1.20	C1.21	C1.22	50B	58F	58G	50C	58D	
4"	18.3	14'	C1.39	C1.32	C1.34	63G	63H	63J	63D	63E	
5"	26.8	15'	C1.39	C1.32	C1.34	63K	63K	63L	63E	63F	
6"	34.8	17'	C1.40	C1.42	C1.44	75L	75M	75M	63F	63G	
8"	53.1	19'	C1.49	C1.43	C1.49	75P	75P	75Q	63G	75K	
10"	80.2	20'	C1.41	C1.47	C1.48	75Q	75Q	75R	75J	75L	
12"	109	20'	C1.41	C1.47	C1.48	75R	75R	75S	75L	75N	
14"	122	20'	C1.66	C1.47	C1.48	75N	75S	75S	75M	75N	
16"	156	20'	C1.66	C1.47	C1.48.1	75S	75S	75S	75M	75P	
18"	196	20'	C1.66	C1.47	C1.73	75M	75T	125T	75N	75Q	
20"	234	20'	C1.76	C1.51	C1.73	125T	125T	125T	125R	125Q	

* - BRACE SPACING SHALL NOT EXCEED THOSE TABULATED IN SECTION B.

NOTE: INSTALLATION DETAILS TABULATED ABOVE ARE BASED ON USE OF THE MW-WPL SEISMIC ATTACHMENT TO STEEL PIPE. IF THE DESIGNER PREFERS TO USE THE MW-SPC, CALCULATE THE SEISMIC DEMAND AND COMPARE IT TO THE SEISMIC CAPACITY OF THE MW-SPC AS SHOWN IN SECTION C. IF THE DEMAND IS LESS THAN OR EQUAL TO THE CAPACITY, THE MW-SPC IS ACCEPTABLE.

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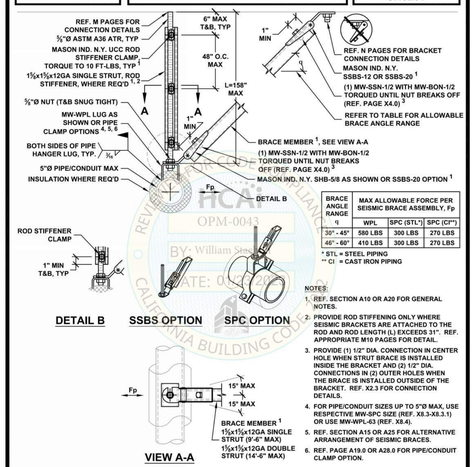
PAGE **B1.1**

HANGER ROD DIAMETER = ⅜"

PIPING/CONDUIT TRANSVERSE SEISMIC SOLID BRACING SYSTEM 5"Ø PIPE/CONDUIT MAX

KIT OPTIONS
S20T
S2012T
SH512T
SH520T



BRACE ANGLE RANGE	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp			
	WPL		SPC (STL*)	SPC (CI**)
ϕ	TRAN.	LONG.	TRAN.	LONG.
30° - 45°	580 LBS	590 LBS	300 LBS	630 LBS
46° - 60°	410 LBS	420 LBS	300 LBS	450 LBS

* STL = STEEL PIPING
** CI = CAST IRON PIPING

NOTES:
1. REF. SECTION A10 OR A20 FOR GENERAL NOTES.
2. PROVIDE ROD STIFFENING ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD AND ROD LENGTH (L) EXCEEDS 31". REF. APPROPRIATE M10 PAGES FOR DETAIL.
3. PROVIDE (1) 1/2" DIA. CONNECTION IN CENTER HOLE WHEN STRUT BRACE IS INSTALLED INSIDE THE BRACKET AND (2) 1/2" DIA. CONNECTIONS IN (2) OUTER HOLES WHEN THE BRACE IS INSTALLED OUTSIDE OF THE BRACKET. REF. X2.3 FOR CONNECTION DETAILS.
4. FOR PIPE/CONDUIT SIZES UP TO 5"Ø MAX, USE RESPECTIVE MW-SPC SIZE (REF. X8.3-X8.3.1) OR USE MW-WPL-63 (REF. X8.4).
5. REF. SECTION A15 OR A25 FOR ALTERNATIVE ARRANGEMENT OF SEISMIC BRACES.
6. REF. PAGE A19.0 OR A28.0 FOR PIPE/CONDUIT CLAMP OPTION.

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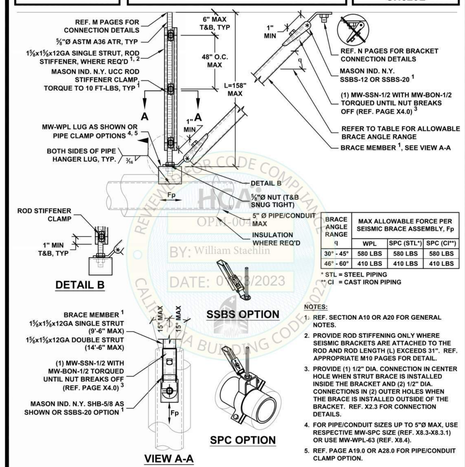
PAGE **C1.30**

HANGER ROD DIAMETER = ⅜"

PIPING/CONDUIT LONGITUDINAL SEISMIC SOLID BRACING SYSTEM 5"Ø PIPE/CONDUIT MAX

KIT OPTIONS
S20L
S2012L
SH512L
SH520L



BRACE ANGLE RANGE	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp			
	WPL		SPC (STL*)	SPC (CI**)
ϕ	TRAN.	LONG.	TRAN.	LONG.
30° - 45°	580 LBS	590 LBS	300 LBS	630 LBS
46° - 60°	410 LBS	420 LBS	300 LBS	450 LBS

* STL = STEEL PIPING
** CI = CAST IRON PIPING

NOTES:
1. REF. SECTION A10 OR A20 FOR GENERAL NOTES.
2. PROVIDE ROD STIFFENING ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD AND ROD LENGTH (L) EXCEEDS 31". REF. APPROPRIATE M10 PAGES FOR DETAIL.
3. PROVIDE (1) 1/2" DIA. CONNECTION IN CENTER HOLE WHEN STRUT BRACE IS INSTALLED INSIDE THE BRACKET AND (2) 1/2" DIA. CONNECTIONS IN (2) OUTER HOLES WHEN THE BRACE IS INSTALLED OUTSIDE OF THE BRACKET. REF. X2.3 FOR CONNECTION DETAILS.
4. FOR PIPE/CONDUIT SIZES UP TO 5"Ø MAX, USE RESPECTIVE MW-SPC SIZE (REF. X8.3-X8.3.1) OR USE MW-WPL-63 (REF. X8.4).
5. REF. PAGE A19.0 OR A28.0 FOR PIPE/CONDUIT CLAMP OPTION.

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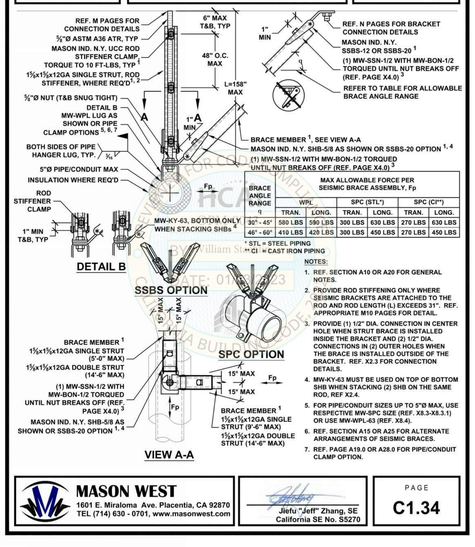
PAGE **C1.32**

HANGER ROD DIAMETER = ⅝"

PIPING/CONDUIT ALL-DIRECTIONAL SEISMIC SOLID BRACING SYSTEM 5"Ø PIPE/CONDUIT MAX

KIT OPTIONS
S20A
S2012A
SH512A
SH520A



BRACE ANGLE RANGE	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp			
	WPL		SPC (STL*)	SPC (CI**)
ϕ	TRAN.	LONG.	TRAN.	LONG.
30° - 45°	580 LBS	590 LBS	300 LBS	630 LBS
46° - 60°	410 LBS	420 LBS	300 LBS	450 LBS

* STL = STEEL PIPING
** CI = CAST IRON PIPING

NOTES:
1. REF. SECTION A10 OR A20 FOR GENERAL NOTES.
2. PROVIDE ROD STIFFENING ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD AND ROD LENGTH (L) EXCEEDS 31". REF. APPROPRIATE M10 PAGES FOR DETAIL.
3. PROVIDE (1) 1/2" DIA. CONNECTION IN CENTER HOLE WHEN STRUT BRACE IS INSTALLED INSIDE THE BRACKET AND (2) 1/2" DIA. CONNECTIONS IN (2) OUTER HOLES WHEN THE BRACE IS INSTALLED OUTSIDE OF THE BRACKET. REF. X2.3 FOR CONNECTION DETAILS.
4. MW-KY-63 MUST BE USED ON TOP OF BOTTOM SHB WHEN STACKING (2) SHB ON THE SAME ROD, REF X2.4.
5. FOR PIPE/CONDUIT SIZES UP TO 5"Ø MAX, USE RESPECTIVE MW-SPC SIZE (REF. X8.3-X8.3.1) OR USE MW-WPL-63 (REF. X8.4).
6. REF. SECTION A15 OR A25 FOR ALTERNATE ARRANGEMENTS OF SEISMIC BRACES.
7. REF. PAGE A19.0 OR A28.0 FOR PIPE/CONDUIT CLAMP OPTION.

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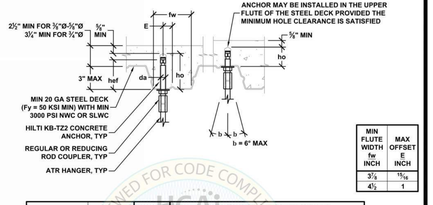
PAGE **C1.34**

HANGER ATTACHMENT
TO CONCRETE FILLED METAL DECK
WITH (1) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHOR



MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3"	15/16
4½"	1

HANGER ATTACHMENT TYPE	ALLOWABLE VERTICAL LOAD Ta 1 LBS	MIN ATR HANGER DIA. INCH	HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D					
			DIA. da INCH	MIN EFF. EMBED. hef INCH	MIN HOLE DEPTH ho INCH	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH	TORQUE REQ'D FT-LBS
38A TO 38J	980	⅜	⅜	2½	3¼	MAX OF: 3"ref OR 1.5"FLUTE WIDTH	3½	30
38A TO 38L	1340	½	½	2½	3¼		3½	50
50A TO 50L	1540	½	½	3¼	4½		4⅛	50
63A TO 63L	1340	½	½	3¼	4½		4⅛	50
38A TO 38L	1370	⅜	⅜	2½	3¼		3½	30
50A TO 50L	1370	½	½	3¼	4½		4⅛	50
63A TO 63L	1370	½	½	3¼	4½		4⅛	50
50A TO 50M	1610	½	½	3¼	4½		4⅛	50
63A TO 63M	1610	½	½	2¾	3¾		4½	40
75A TO 75M	1610	½	½	2¾	3¾		4½	40
50A TO 50M	1800	½	½	3¼	4½		4⅛	50
63A TO 63M	1800	½	½	3¼	4½		4⅛	50
75A TO 75M	1800	½	½	4	4¾		6	40
63A TO 63L	1530	½	¾	3½	4¾		5⅛	110
75A TO 75L	1530	½	¾	3½	4¾		5⅛	110
88A TO 88L	1530	½	¾	3½	4¾		5⅛	110

SEE DETAIL M0.00 FOR SECTION NOTES
1 ALLOWABLE LOADS HAVE BEEN INCREASED BY A FACTOR OF 1.2 FOR LOAD COMBINATIONS INCLUDING OVERSTRENGTH, Ω_o PER ASCE 7-10 SEC. 12.4.3.3 OR ASCE 7-16 SEC. 2.4.5.

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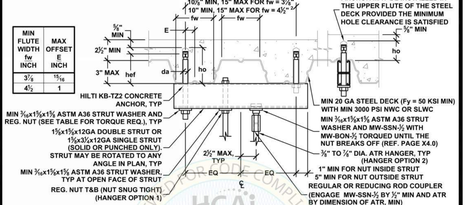
PAGE **M2.130**

HANGER ATTACHMENT
TO CONCRETE FILLED METAL DECK
WITH (2) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHORS



MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3⅛	15/16
4⅝	1

HANGER ATTACHMENT TYPE	STEEL COMPONENT ALLOWABLE VERTICAL LOAD Ta LBS	CONCRETE ANCHOR ALLOWABLE VERTICAL LOAD Tac 1 LBS	ATR HANGER DIA. INCH	HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D				
				DIA. da INCH	MIN EFF. EMBED. hef INCH	MIN HOLE DEPTH ho INCH	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH	TORQUE REQ'D FT-LBS
38A TO 38L	1340	1310	½	⅜	2½	3¼	MAX OF: 3"ref OR 1.5"FLUTE WIDTH	3½	30
50A TO 50L	1540	1310	½	½	3¼	4½		4⅛	50
63A TO 63L	1340	1310	½	½	3¼	4½		4⅛	50
75A TO 75L	1370	1310	½	½	3¼	4½		4⅛	50
88A TO 88L	1370	1310	½	½	3¼	4½		4⅛	50
38A TO 38M	2400	1830	½	⅜	2½	3¼		3½	30
50A TO 50M	2620	1830	½	½	3¼	4½		4⅛	50
63A TO 63M	2620	1830	½	½	3¼	4½		4⅛	50
75A TO 75M	2620	1830	½	½	3¼	4½		4⅛	50
88A TO 88M	2620	1830	½	½	3¼	4½		4⅛	50
38A TO 38N	2400	2400	½	⅜	2½	3¼		3½	30
50A TO 50N	2620	2400	½	½	3¼	4½		4⅛	50
63A TO 63N	2620	2400	½	½	3¼	4½		4⅛	50
75A TO 75N	2620	2400	½	½	3¼	4½		4⅛	50
88A TO 88N	2620	2400	½	½	3¼	4½		4⅛	50

SEE DETAIL M0.00 FOR SECTION NOTES
1 ALLOWABLE LOADS HAVE BEEN INCREASED BY A FACTOR OF 1.2 FOR LOAD COMBINATIONS INCLUDING OVERSTRENGTH, Ω_o PER ASCE 7-10 SEC. 12.4.3.3 OR ASCE 7-16 SEC. 2.4.5.
2 WHEN THE BOLT CENTERLINE DISTANCE EXCEEDS 13⅛" FOR fw = 3⅛" OR 14" FOR fw = 4⅝", THE STRUT MUST BE ROTATED TO COMPLY TO THE DETAIL.

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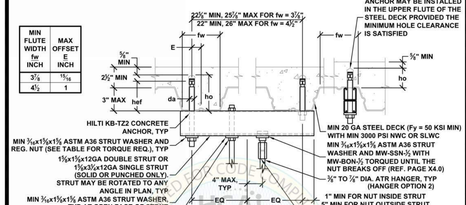
PAGE **M2.131**

HANGER ATTACHMENT
TO CONCRETE FILLED METAL DECK
WITH (2) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHORS



MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3⅛	15/16
4⅝	1

HANGER ATTACHMENT TYPE	STEEL COMPONENT ALLOWABLE VERTICAL LOAD Ta LBS	CONCRETE ANCHOR ALLOWABLE VERTICAL LOAD Tac 1 LBS	ATR HANGER DIA. INCH	HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D					
				DIA. da INCH	MIN EFF. EMBED. hef INCH	MIN HOLE DEPTH ho INCH	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH	TORQUE REQ'D FT-LBS
38A TO 38M	1960	1440	½	⅜	2½	3¼	MAX OF: 3"ref OR 1.5"FLUTE WIDTH	3½	30
50A TO 50M	1960	1440	½	½	3¼	4½		4⅛	50
63A TO 63M	1860	1440	½	½	3¼	4½		4⅛	50
75A TO 75M	1960	1440	½	½	3¼	4½		4⅛	50
88A TO 88M	1960	1440	½	½	3¼	4½		4⅛	50
38A TO 38M	1960	2010	½	⅜	2½	3¼		3½	30
50A TO 50M	1860	2010	½	½	3¼	4½		4⅛	50
63A TO 63M	1860	2010	½	½	3¼	4½		4⅛	50
75A TO 75M	1860	2010	½	½	3¼	4½		4⅛	50
88A TO 88M	1960	2010	½	½	3¼	4½		4⅛	50

SEE DETAIL M0.00 FOR SECTION NOTES
1 ALLOWABLE LOADS HAVE BEEN INCREASED BY A FACTOR OF 1.2 FOR LOAD COMBINATIONS INCLUDING OVERSTRENGTH, Ω_o PER ASCE 7-10 SEC. 12.4.3.3 OR ASCE 7-16 SEC. 2.4.5.

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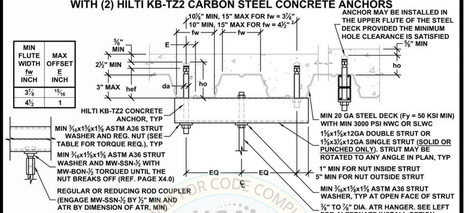
1

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

HANGER ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (2) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHORS



MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3⅛	15/16
4½	1

ALTERNATE HANGER INSTALL

HANGER ATTACHMENT TYPE	STEEL COMPONENT ALLOWABLE VERTICAL LOAD Ta LBS	HANGER ATTACHMENT TYPE	CONCRETE ANCHOR ALLOWABLE VERTICAL LOAD Tac[1] LBS	ATR HANGER DIA. INCH	HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D				
					DIA. da INCH	MIN EFF. EMBED. hef INCH	MIN HOLE DEPTH ho INCH	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH	TORQUE REQ'D FT-LBS
38A TO 38N	2400	38A TO 38M	1960	⅝	⅝	2½	3¼	MAX OF: 3"hef OR 1.5"FLUTE WIDTH	3¼	30
50A TO 50P	2620	50A TO 50M	1960	⅞						
63A TO 63P	2620	63A TO 63M	1960	⅞						
75A TO 75P	2620	75A TO 75M	1960	⅞						
88A TO 88P	2620	88A TO 88M	1960	⅞						
38A TO 38N	2400	38A TO 38P	2740	⅝	¾	3	4		4½	50
50A TO 50P	2620	50A TO 50P	2740	⅞						
63A TO 63P	2620	63A TO 63P	2740	⅞						
75A TO 75P	2620	75A TO 75P	2740	⅞						
88A TO 88P	2620	88A TO 88P	2740	⅞						
38A TO 38N	2400	38A TO 38Q	3600	⅞	⅞	4	4½	MAX OF: 3"hef OR 1.5"FLUTE WIDTH	6	40
50A TO 50P	2620	50A TO 50Q	3600	⅞						
63A TO 63P	2620	63A TO 63Q	3600	⅞						
75A TO 75P	2620	75A TO 75Q	3600	⅞						
88A TO 88P	2620	88A TO 88Q	3600	⅞						

SEE DETAIL M0.00 FOR SECTION NOTES

[1] ALLOWABLE LOADS HAVE BEEN INCREASED BY A FACTOR OF 1.2 FOR LOAD COMBINATIONS INCLUDING OVERSTRENGTH, Ω_0, PER ASCE 7-10 SEC. 12.4.3.3 OR ASCE 7-16 SEC. 2.4.5.

[2] WHEN THE BOLT CENTERLINE DISTANCE EXCEEDS 13⅞" FOR fw = 3⅞" OR 14" FOR fw = 4½", THE STRUT MUST BE ROTATED TO COMPLY TO THE DETAIL.

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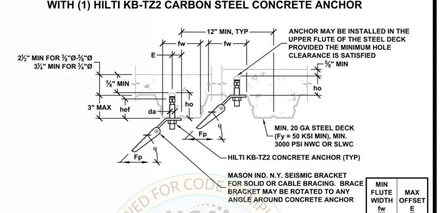
PAGE M2.131.2

SEISMIC BRACKET ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (1) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHOR



MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3⅛	15/16
4½	1

BRACE BRACKET ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD Fp LBS	Ω_0 = 2.0[1]			HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D					
		BRACE BRACKET ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD Fp LBS	MAX BRACE RANGE q	DIA. da INCH	MIN. EFF. EMBED. hef INCH	MIN. HOLE DEPTH ho INCH	MIN. SPACING Smin INCH	MIN. END DIST. Cmin INCH	TORQUE REQ'D FT-LBS
38A TO 38D	320	38A TO 38D	320	30°- 45°	⅝	2½	3¼	MAX OF: 3"hef OR 1.5"FLUTE WIDTH	3¼	30
38A TO 38C	200	38A TO 38C	200	45°- 60°						
50A TO 50F	450	50A TO 50F	450	30°- 45°	¾	2½	3¼		3¼	50
50A TO 50D	270	50A TO 50D	270	45°- 60°						
50A TO 50F	490	50A TO 50F	490	30°- 45°	½	3¼	4½		4½	50
50A TO 50D	290	50A TO 50D	290	45°- 60°						
63A TO 63F	540	63A TO 63F	540	30°- 45°	⅝	2½	3¼		4¼	40
63A TO 63D	330	63A TO 63D	330	45°- 60°						
63A TO 63G	620	63A TO 63G	620	30°- 45°	⅝	4	4½		6	40
63A TO 63E	370	63A TO 63E	370	45°- 60°						
75A TO 75G	600	75A TO 75G	600	30°- 45°	¾	3½	4½		6½	110
75A TO 75D	340	75A TO 75D	340	45°- 60°						

SEE DETAIL N0.00 FOR SECTION NOTES

[1] OVERSTRENGTH FACTOR AS REQUIRED FOR ANCHORAGE TO CONCRETE.

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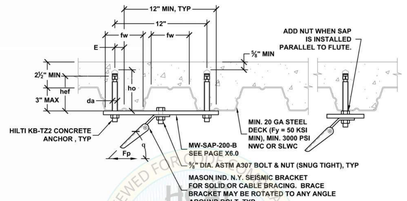
PAGE N2.130

SEISMIC BRACKET ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (2) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHORS



MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3⅛	15/16
4½	1

BRACE BRACKET ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD Fp LBS	Ω_0 = 2.0[1]			HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D				
		BRACE BRACKET ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD Fp LBS	MAX BRACE RANGE q	DIA. da INCH	MIN. EFF. EMBED. hef INCH	MIN. HOLE DEPTH ho INCH	MIN. SPACING Smin INCH	TORQUE REQ'D FT-LBS
63A TO 63M	1820	63A TO 63K	1090	30°- 45°	⅝	2¼	3⅛	MAX OF: 3"hef OR 1.5"FLUTE WIDTH	40
63A TO 63K	1110	63A TO 63H	770	46°- 60°					
63A TO 63M	1930	63A TO 63L	1260	30°- 45°	¾	4	4⅛		40
63A TO 63K	1110	63A TO 63J	880	46°- 60°					

SEE DETAIL N0.00 FOR SECTION NOTES

[1] OVERSTRENGTH FACTOR AS REQUIRED FOR ANCHORAGE TO CONCRETE.

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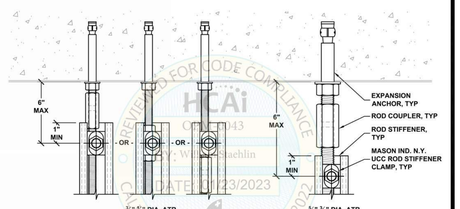
PAGE N2.132

HANGER INSTALLATION DETAILS WITH ROD STIFFENER FOR EXPANSION ANCHOR



EXPANSION ANCHOR INSTALLED AT THE CONCRETE FILLED METAL DECK

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PAGE M10.11

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WAME PROJECT #: 22-023

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HCAI SUBMISSION

Account No.: 9557960
HCAi No.: S241919-34-00
Bldg. No.: 73
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: DETAILS

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. BOR	Scale: AS NOTED	S5.03
Designed By: PRA	Issue Date: 12/20/2024	
Drawn By: NCU	ACAD Version: 2022	

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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VARIABLE FREQUENCY DRIVES SCHEDULE

	EQUIPMENT LOCATION	EQUIPMENT TYPE	EQUIPMENT ID	ABB MODEL	HP	HIGH TEMP APPLICATION DE-RATED HP	VOLTAGE	ENCLOSURE	DIMENSIONS H"XW"XD"	ECLIPSE BYPASS	MOUNTING DETAIL	MAXIMUM WEIGHT
OSP-0575												
VFD CRP-1	CUP BASEMENT	STEAM CONDENSATE RECEIVER PUMP	CRP/1	ACH580-3BCR-07A6-4+K465	5	NA	480/3/60	NEMA 1	40x6x10	YES	1/M5.02	150 LBS
VFD CRP-2	CUP BASEMENT	STEAM CONDENSATE RECEIVER PUMP	CRP/2	ACH580-3BCR-07A6-4+K465	5	NA	480/3/60	NEMA 1	40x6x10	YES	1/M5.02	150 LBS

GENERAL NOTES:

1. PROVIDE SINGLE MANUFACTURER FOR ALL DRIVES
2. FOR DRIVES WITH BYPASS PROVIDE AUTOMATIC BYPASS WITH SERVICE SWITCH AND VFD FUSES WITH MAIN CIRCUIT BREAKER. PROVIDE VFD'S WITH ECLIPSE BYPASS. VFD'S SHALL HAVE ULTRA LOW HARMONICS (THD OF 3% MAX).
3. PROVIDE PROOF OF FLOW AND FULL SERIAL COMMUNICATION IN BOTH VFD AND BYPASS MODES.
4. DRIVES SHALL 5% MINIMUM IMPEDANCE, PLAIN ENGLISH DISPLAY ON KEYPAD, +/-30% VOLTAGE TOLERANCE AND SINGLE PHASE PROTECTION.
5. EMI/RFI FILTERS EN 61800-3 CE FIRST ENVIRONMENT.
6. DRIVES SHALL BE CAPABLE OF EMBEDDED SERIAL COMMUNICATION PROTOCOLS FOR BACNET, N2, FLN, MODBUS.
7. DRIVES SHALL HAVE A PASS THRU I/0 SHALL OPEN DAMPERS OR VALVES IN THE SYSTEM IF VFD GOES INTO BYPASS MODE TO ALLEVIATE OVER PRESSURIZATION.
8. PROVIDE F-267 SERVICE SWITCH SO THAT DRIVES IN NEMA 1 ENCLOSURES MAY BE SEPARATED FROM THE BYPASS FOR DRIVE SERVICE
9. PROVIDE SHAFT GROUNDING KIT ON MOTOR PROVIDE EMS WIRING TO TEMPERATURE CONTROL PANEL
10. PROVIDE ECLIPSE BYPASS AND INTEGRATE INTO BMS SYSTEM
11. PROVIDE ELECTRICAL WIRING FROM PANEL TO DRIVE AND FROM DRIVE TO EQUIPMENT RECONNECT TO (E) ELECTRICAL WIRING
12. BOILER FEED WATER PUMP VFD'S ARE LOCATED IN HIGH TEMPERATURE SPACE. PROVIDE A DE-RATED DRIVE TO ACCOMMODATE 120F OPERATING CONDITIONS.
13. REPLACE (E) PUMP MOTORS WITH NEW MOTORS COMPATIBLE WITH VARIABLE FREQUENCY DRIVES.

CONTROLS GENERAL NOTES

CONTRACTOR SHALL WORK CLOSELY WITH THE CUP ENGINEERING GROUP FOR CONNECTING OF THE CONTROL POINTS AND INTEGRATION INTO THE EXISTING DCS.

STEAM FLOW METER SCHEDULE

UNIT	LOCATION	"ARMSTRONG" MODEL	MINIMUM TURNDOWN	MAXIMUM FLOW	WORKING TEMP	WORKING PRESSURE	
STM-FM 1	LPS TO DA TANK	6" VERIS ACCELABAR	10:1	8,000 LBS/HR	241 °F	14 PSI	24V DC

NOTES:

1. TRANSMITTER HEAD SHALL BE A LOOP POWERED ROSEMOUNT TYPE.
2. TRANSMITTER HEAD TO BE INSTALLED HORIZONTAL ON THE BOTTOM OF THE PIPE. PROVIDE SUFFICIENT CLEARANCE FOR REMOVAL AND SERVICE OF THE FLOW METER.
3. MANUFACTURER'S PUBLISHED LITERATURE INDICATES NO STRAIGHT RUN REQUIREMENTS FOR FLOW METER.
4. TERMINATE THE FLOW METER TRANSMITTER AT PCU7 (FIRST FLOOR). TERMINATION UNIT LOCATION 7-9C, CHANNELS 7-15. PROVIDE 3 WIRE RTD SIGNAL CABLE.

STEAM CONDENSATE FLOW METER SCHEDULE

UNIT	LOCATION	"ROSEMOUNT" MODEL	MINIMUM FLOW	MAXIMUM FLOW	WORKING TEMP	WORKING PRESSURE	
COND-FM 1	CONDENSATE RETURN FROM CAMPUS	8700M MAG FLOWMETER	1 GPM	20 GPM	200 °F	14 PSI	24V DC

NOTES:

1. TERMINATE THE FLOW METER TRANSMITTER AT PCU8 IN BASEMENT LEVEL. TERMINATION UNIT LOCAITON 8B-11D. SPARE CHANNELS 13,15, & 16. PROVIDE 16 AWG SHIELDED TWISTED PAIR WIRE WITH A DRAIN WIRE.

BID ALTERNATE 1

BASE BID:

NO MODIFICATIONS TO COMBINED DA TANK VENT AND CONDENSATE RETURN CONNECTION

BID ALTERNATE 1:

CURRENTLY THE (E) PIPING CONFIGURATION IS A COMBINED PUMPED CONDENSATE RETURN AND DA TANK VENT TO ATMOSPHERE. BID ALTERNATE 1 WOULD BE TO SEPARATE THE VENT AND PUMPED CONDENSATE RETURN. PUMPED CONDENSATE RETURN WILL REMAIN IN THE SAME LOCATION, THE CONTRACTOR WILL OFFSET THE DA TANK VENT AND WILL CONNECT TO AN (E) CAPPED PIPING CONNECTION ON THE DA TANK.

GENERAL NOTES

1. MECHANICAL AND PLUMBING DETAILS APPLY TO ALL BUILDINGS WHETHER REFERENCED OR NOT.
2. CONTRACTOR TO OFFSET AND PIPING AROUND EXISTING CONDITIONS.
3. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY OFFSET, FITTING, OR STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF WORK. THE CONTRACTORS SHALL COORDINATE LOCATION OF ALL DUCTWORK AND PIPING WITH ALL OTHER TRADES ON THIS PROJECT. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
4. ALL VALVES SHALL BE FULL LINE SIZES UNLESS NOTED OTHERWISE.
5. PIPING SHALL BE SUPPORTED IN ACCORDANCE TO OPM-0043-13 BY MASON WEST, BLINE OPM-0052-13 OR EQUAL. ALL METAL STRUT SYSTEMS SHALL BE OF A SINGLE MANUFACTURER AND SHALL BE IN ACCORDANCE WITH MASON WEST OPM-0043-13, BLINE OPM-0052-13 OR EQUAL. (1)
6. THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2016 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2016 CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDS) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFIRM TO THE FOLLOWING CODES AND REGULATIONS:

1. CALIFORNIA CODE OF REGULATIONS - TITLE 24
2. CALIFORNIA BUILDING CODE, 2022
3. CALIFORNIA MECHANICAL CODE, 2022
4. CALIFORNIA PLUMBING CODE, 2022
5. CALIFORNIA FIRE CODE, 2022
6. CALIFORNIA ELECTRICAL CODE, 2022
7. CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, 2022

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IF FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

EQUIPMENT SCHEDULE

AS 1

AIR SEPARATOR

"SPIROTHERM" MODEL VDT-1200-FA12" FLANGED PIPING CONNECTIONS, FLANGED DRAIN. 2000 GPM MAX FLOW, 12" FLANGED CONNECTIONS, 1" FLANGED DRAIN, 2000 GPM DESIGN FLOW, 4.5 FT PRESSURE DROP, SEE MOUNTING DETAIL 3/M5.02

OPERATING WEIGHT = 1250 LBS.

MF 1 / MF 2

METRAFLEX EXPANSION JOINT

"METRAFLEX" METRAGATOR GAT3004SF0400 300 PSI 4" AXIAL COMPRESSION, FLANGED EXTERNALLY PRESSURIZED EXPANSION JOINT. INTERNAL GUIDE RING, LIFTING LUG, MULTIPLY 304 STAINLESS STEEL BELLOWS, 1/2" DRAIN, 300# RAISED FACE FLANGE CARBON STEEL FLANGES.

CONTROL NOTES

CONDENSATE RECEIVER CONTROLS

PROVIDE NEW FLUID GAUGE PLC CONTROL PANEL ADJACENT TO CONDENSATE RECEIVER PUMP VFD'S. PROVIDE NEW ELECTRONIC RADAR LEVEL SENSOR IN CONDENSATE RECEIVER TANK. PLC CONTROLLER SHALL CONTROL PUMP SPEED, LEAD/LAG OF PUMPS, AND ALARM TO THE FACILITY DCS. CONTRACTOR SHALL PROVIDE FULL DCS INTEGRATION, GRAPHICS, ALARMS ETC.

SEE 1/M5.03.

STEAM CONDENSATE FLOW METER / STEAM FLOW METER

STEAM CONDENSATE FLOW METER SHALL BE PROVIDED FOR THE CONDENSATE RETURN FROM THE CAMPUS BACK TO THE CENTRAL UTILITY PLAN. THE FLOW METER SHALL BE INTEGRATED AND MONITORED BY THE FACILITY DCS. THE DCS SHALL TREND CONDENSATE FLOW FOR EACH OF THE FLOW METERS.

BOILER GAS FLOW METERS

GAS FLOW METERS SHALL BE INTEGRATED INTO THE CLEAVER BROOKS BOILER CONTROLLER AND MONITORED BY THE FACILITY DCS. INTEGRATION INTO THE BOILER CONTROLLER SHALL BE BY RF MACDONALD. THE DCS SHALL TREND DAILY (ADJUSTABLE) GAS USAGE FOR EACH OF THE FLOW METERS AND STORE DATA FOR A PERIOD OF 5 YEARS (ADJ).

THE CONTRACTOR SHALL RECONFIGURE THE GAS PIPING SUCH THAT THERE IS 20" OF STRAIGHT PIPING AHEAD AND BEHIND THE NEW FLOW METER SPOOL ASSEMBLY.

PROVIDE THE FOLLOWING:
INSERTION METER:
P/N: SIP-05-15-AC115-NG / SVA05
ISOLATION VALVE (3/4" MNPT):
P/N: SVA05
SPECIAL (SPECL) INLINE FLOW BODY:
P/N: 400-S150FLG400-SPECL =
SPECL : 4" D X 12" L INLINE FLOW BODY, 150# RF FLANGED ENDS, BUILT-IN FLOW CONDITIONING, 3/4" FNPT CONNECTION FOR SVA05

MECHANICAL/PLUMBING LEGEND

ABBREVIATIONS

ABC	ABOVE FINISHED CEILING	FLR	FLOOR	OC	ON CENTER
AC	AIR CONDITIONING	FPM	FEET PER MINUTE	PC	PUMPED CONDENSATE
ACU	AIR CONDITIONING UNIT	FS	FLOW SWITCH	PD	PRESSURE DROP
AD	ACCESS DOOR	FSD	FIRE SMOKE DAMPER	PF	PRE FILTER
AFF	ABOVE FINISHED FLOOR	FT	FEET	PH	PHASE
AFC	ABOVE FINISHED CEILING	GA	GAUGE	PLBG	PLUMBING
AHU	AIR HANDLING UNIT	GC	GENERAL CONTRACTOR	POC	POINT OF CONNECTION
AP	ACCESS PANEL	GALV	GALVANIZED	POD	POINT OF DISCONNECTION
APD	AIR PRESSURE DROP	GSM	GALVANIZED SHEET METAL	PRV	PRESSURE REDUCING VALVE
AVV	AUTOMATIC AIR VENT	GPH	GALLONS PER HOUR	PS	PRESSURE SWITCH
ARCH	ARCHITECT	GPM	GALLONS PER MINUTE	PSI	POUNDS PER SQUARE INCH
BAS	BUILDING AUTOMATION SYSTEM	GV	GATE VALVE	PSIG	POUNDS PER SQUARE INCH GAUGE
BDD	BACK DRAFT DAMPER	HC	HEATING COIL	R	RISER
BF	BELOW FLOOR	HP	HORSEPOWER	RA	RETURN AIR
BHP	BRAKE HORSEPOWER	HPR	HIGH PRESSURE CONDENSATE RETURN	RAD	RETURN AIR DAMPER
BOD	BOTTOM OF DUCT	HPS	HIGH PRESSURE STEAM, ABOVE 60 PSIG	RD	REFRIDGERANT DISCHARGE
BOP	BOTTOM OF PIPE	HR	HOUR	RF	RELIEF FAN
BTUH	BRITISH THERMAL UNIT PER HOUR	HRP	HEAT RECOVERY PUMP	RH	RELATIVE HUMIDITY
BV	BUTTERFLY VALVE	HRR	HEAT RECOVERY RETURN	RHC	REHEAT COIL
CA	COMPRESSED AIR	HRS	HEAT RECOVERY SUPPLY	RL	REFRIDGERANT LIQUID
CAP	CAPACITY	HVAC	HEATING VENTILATING & AIR CONDITIONING	RLA	RUNNING LOAD AMPS
CAV	CONSTANT AIR VOLUME	HWP	HEATING WATER PUMP	RM	ROOM
CC	CENTER TO CENTER	HWR	HEATING WATER RETURN	RPM	REVOLUTIONS PER MINUTE
CD	CONDENSATE DRAIN	HWS	HEATING WATER SUPPLY	RS	REFRIDGERANT SUCTION
CEF	CEILING EXHAUST FAN	HXR	HEAT EXCHANGER	RTS	REFER TO SPECIFICATIONS
CFM	CUBIC FEET PER MINUTE	ID	INSIDE DIAMETER	SA	SUPPLY AIR
CHWP	CHILLED WATER PUMP	IN WC	INCHES OF WATER COLUMN	SCD	SECONDARY CONDENSATE DRAIN
CHWR	CHILLED WATER RETURN	KW	KILOWATTS	SCH	SCHEDULE
CHWS	CHILLED WATER SUPPLY	KWH	KILOWATT HOUR	SCR	STEAM CONDENSATE RETURN
CO2	CARBON DIOXIDE	LAT	LEAVING AIR TEMPERATURE	SF	SUPPLY FAN
CU	CONDENSING UNIT	LBS	POUNDS	SHT	SHEET
CV	CONTROL VALVE	LDB	LEAVING DRY BULB	SHWP	SECONDARY HEATING WATER PUMP
CWP	CONDENSING WATER PUMP	LWB	LEAVING WET BULB	SM	SHEET METAL
CWR	CONDENSING WATER RETURN	LP	LOW PRESSURE	SMS	SHEET METAL SCREW
CWS	CONDENSING WATER SUPPLY	LPR	LOW PRESSURE CONDENSATE RETURN	SP	STATIC PRESSURE
D	DROP	LPS	LOW PRESSURE STEAM, 5-15 PSIG	SPD	STATIC PRESSURE DROP
DB	DRY BULB TEMPERATURE	LWT	LEAVING WATER TEMPERATURES	SQFT	SQUARE FEET
DET	DETAIL	LRA	LOCKED ROTOR AMPS	SQIN	SQUARE INCHES
DIA	DIAMETER	MAV	MANUAL AIR VENT	SS	STAINLESS STEEL
DIS	DEIONIZED (PURE) STEAM	MAX	MAXIMUM	TA	TO ABOVE
DN	DOWN	MBH	1,000 BRITISH THERMAL UNITS PER HOUR	TB	TO BELOW
DSD	DUCT SMOKE DETECTER	MC	MECHANICAL CONTRACTOR	TCV	TEMPERATURE CONTROL VALVE
DTR	DUCT THRU ROOF	MCC	MOTOR CONTROL CENTER	TG	TRANSFER GRILLE
DWG	DRAWING	MD	MANUEL DAMPER	TH	THERMOMETER
(E)	EXISTING	MFR	MANUFACTURER	TSP	TOTAL STATIC PRESSURE
(ER)	EXISTING RELOCATED	MIN	MINIMUM	TSTAT	THERMOSTAT
EA	EXHAUST AIR	MISC	MISCELLANEOUS	TYP	TYPICAL
EAD	EXHAUST AIR DAMPER	MPR	MEDIUM PRESSURE CONDENSATE RETURN	UON	UNLESS OTHERWISE NOTED
EAT	ENTERING AIR TEMPERATURE	(N)	NEW	UG	UNDER GROUND
EF	EXHAUST FAN	NC	NORMALLY CLOSED	UF	UNDER FLOOR
ELEC	ELECTRICAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	V	VOLTS
ESP	EXTERNAL STATIC PRESSURE	NIC	NOT IN CONTRACT	VAV	VARIABLE AIR VOLUME
ET	EXPANSION TANK	NO	NORMALLY OPEN	VD	VOLUME DAMPER
EWT	ENTERING WATER TEMPERATURE	NTS	NOT TO SCALE	VFD	VARIABLE FREQUENCY DRIVE
°F	DEGREES FAHRENHEIT	NA	NOT APPLICABLE	VLV	VALVE
FA	FROM ABOVE	OA	OUTSIDE AIR	WB	WET BULB
FB	FROM BELOW	OAD	OUTSIDE AIR DAMPER	WPD	WATER PRESSURE DROP
FC	FLEXIBLE CONNECTION	OBD	OPPOSED BLADE DAMPER	WMS	WIRE MESH SCREEN
FCU	FAN COIL UNIT			W/	WITH
FD	FIRE DAMPER			W/O	WITHOUT
FF	FINAL FILTER			WT	WEIGHT
FFU	FAN/FILTER UNIT			$	ON/OFF SWTCH/STARTER
FLA	FULL LOAD AMPS				

SYMBOLS

CA	COMPRESSED AIR		BALL VALVE
	FLOW IN DIRECTION OF ARROW		BALANCE VALVE
	REDUCER		CHECK VALVE
	OUTSIDE AIR INTO LOUVER		PRESSURE REDUCING VALVE
	RETURN OR EXHAUST AIR INTO REGISTER		SOLENOID VALVE W/ MOTOR ACTUATOR
	SUPPLY AIR FROM REGISTER		PRESSURE GAUGE
	SUPPLY AIR GRILLE ID SIZE / CFM		UNION
	RETURN AIR GRILLE ID SIZE / CFM		CAP (END OF PIPE)
	EXHAUST AIR GRILLE ID SIZE / CFM	Ø	DIAMETER
			ROOM THERMOSTAT
			POINT OF CONNECTION
			POINT OF DISCONNECTION
	ITEM TO BE REMOVED / DEMOED	ROOM NAME --	ROOM NAME AND NUMBER
	ITEM TO BE ABANDONED IN PLACE		

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
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WAME PROJECT #: 22-023

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1	OSHPD BACKCHECK 1	02/28/2025

HCAI SUBMISSION

Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: HCAI - BLD-0144, UCDH - 073
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: MECHANICAL SCHEDULES LEGENDS & NOTES

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. M0.01
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: AD	Issue Date: 12/20/2024	
Drawn By: AD	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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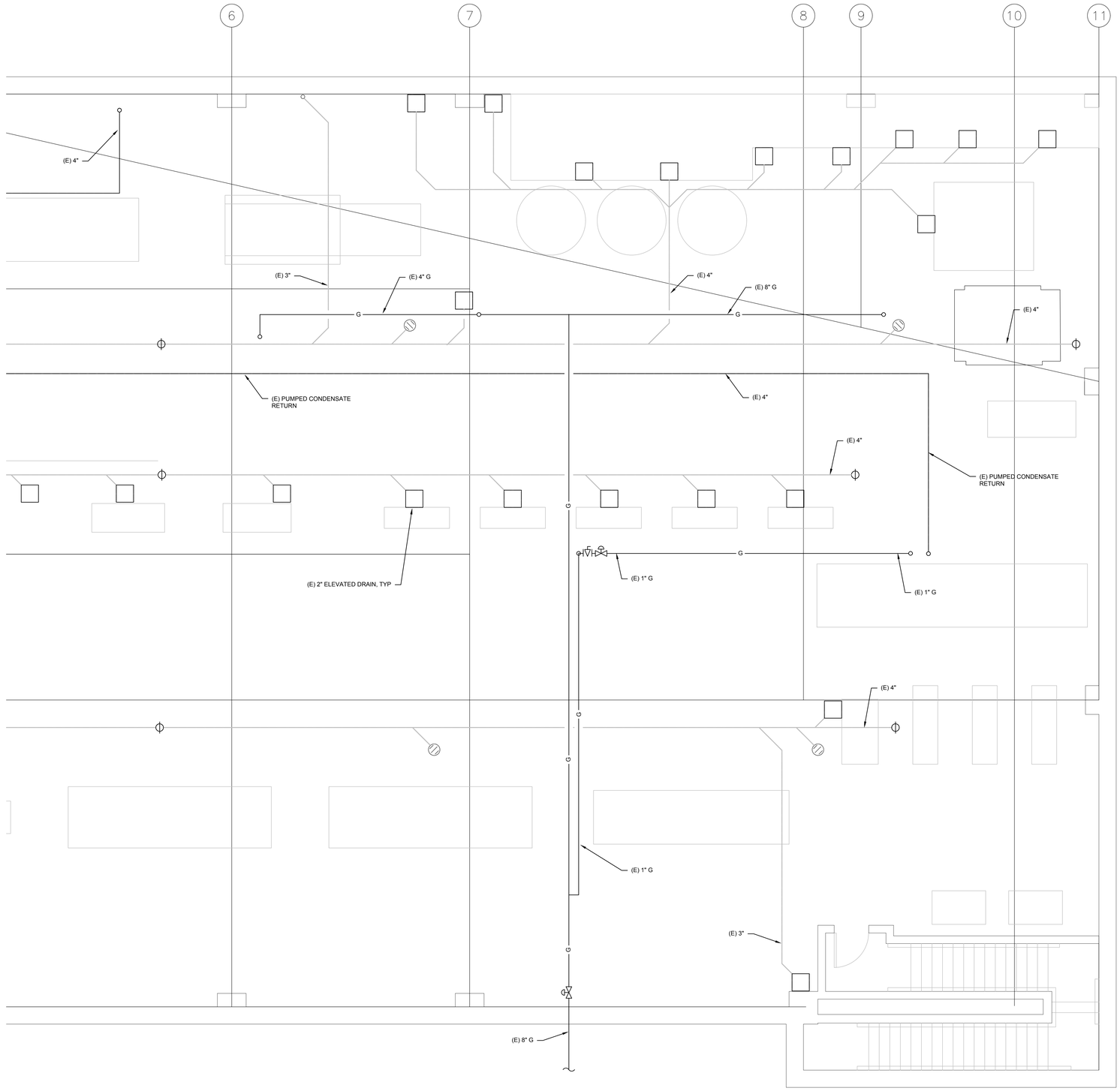

NO SCOPE, SHOWN FOR REFERENCE ONLY

MECHANICAL/PLUMBING DEMO - PARTIAL BASEMENT FLOOR PLAN - EAST

SCALE: 1/4" = 1'-0"

1 / M1.01

N

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR

APPROVED

Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
4/7/2025, 3:28:21 PM
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Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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	100% CD	10/01/2024

HCAI SUBMISSION

Account No.: 9557960
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Bldg. No.: HCAI - BLD-0144, UCDH - 073
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: MECHANICAL/PLUMBING DEMO PARTIAL BASEMENT FLOOR PLAN - EAST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. M1.01
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: AD	Issue Date: 12/20/2024	
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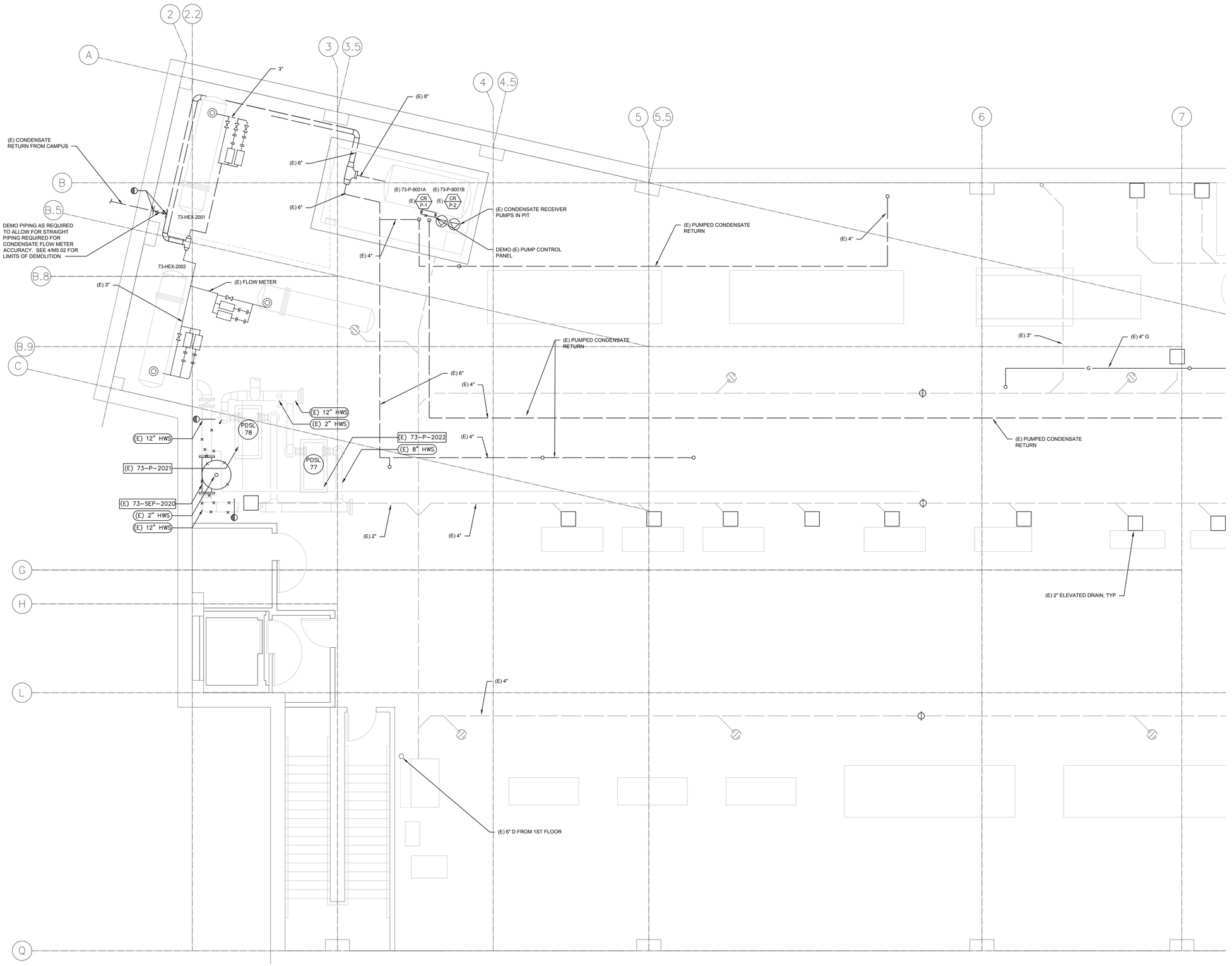

MECHANICAL/PLUMBING DEMO - PARTIAL BASEMENT FLOOR PLAN - WEST

SCALE: 1/4" = 1'-0"

1 / M1.02

N

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Office of Statewide Hospital Planning and Development
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Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

REGISTERED PROFESSIONAL ENGINEER ADAM C. DAVIS M 34869 EXPIRES 06/30/26 MECHANICAL STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

THIS ISSUE:	ISSUED FOR	Date
	100% SD	12/20/2023
	100% DD	03/6/2024
	50% CD	08/19/2024
	100% CD	10/01/2024

HCAI SUBMISSION

Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: HCAI - BLD-0144, UCDH - 073
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: MECHANICAL/PLUMBING DEMO PARTIAL BASEMENT FLOOR PLAN - WEST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. M1.02
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: AD	Issue Date: 12/20/2024	
Drawn By: AD	ACAD Version: 2022	

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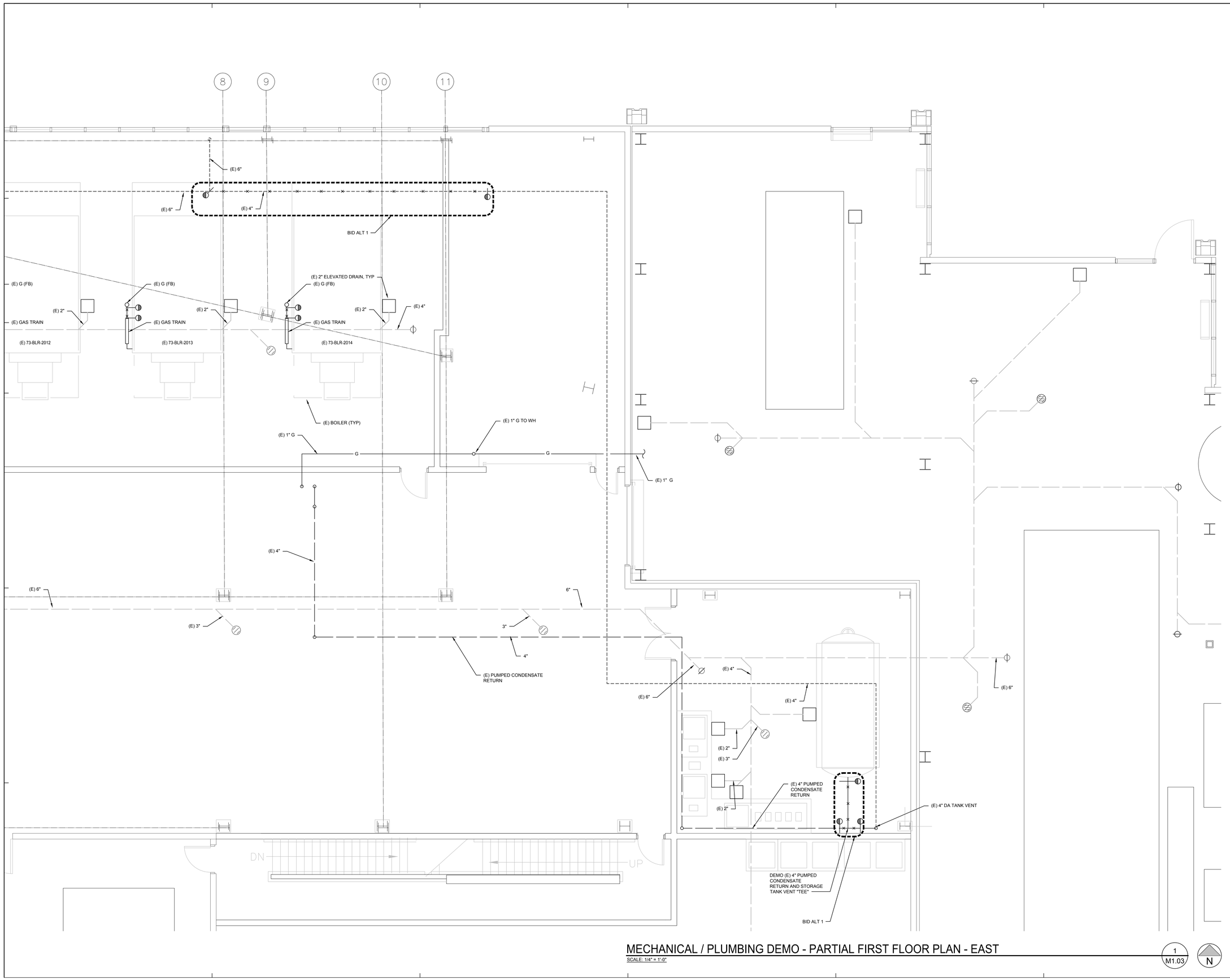

MECHANICAL / PLUMBING DEMO - PARTIAL FIRST FLOOR PLAN - EAST

SCALE: 1/4" = 1'-0"

1 / M1.03

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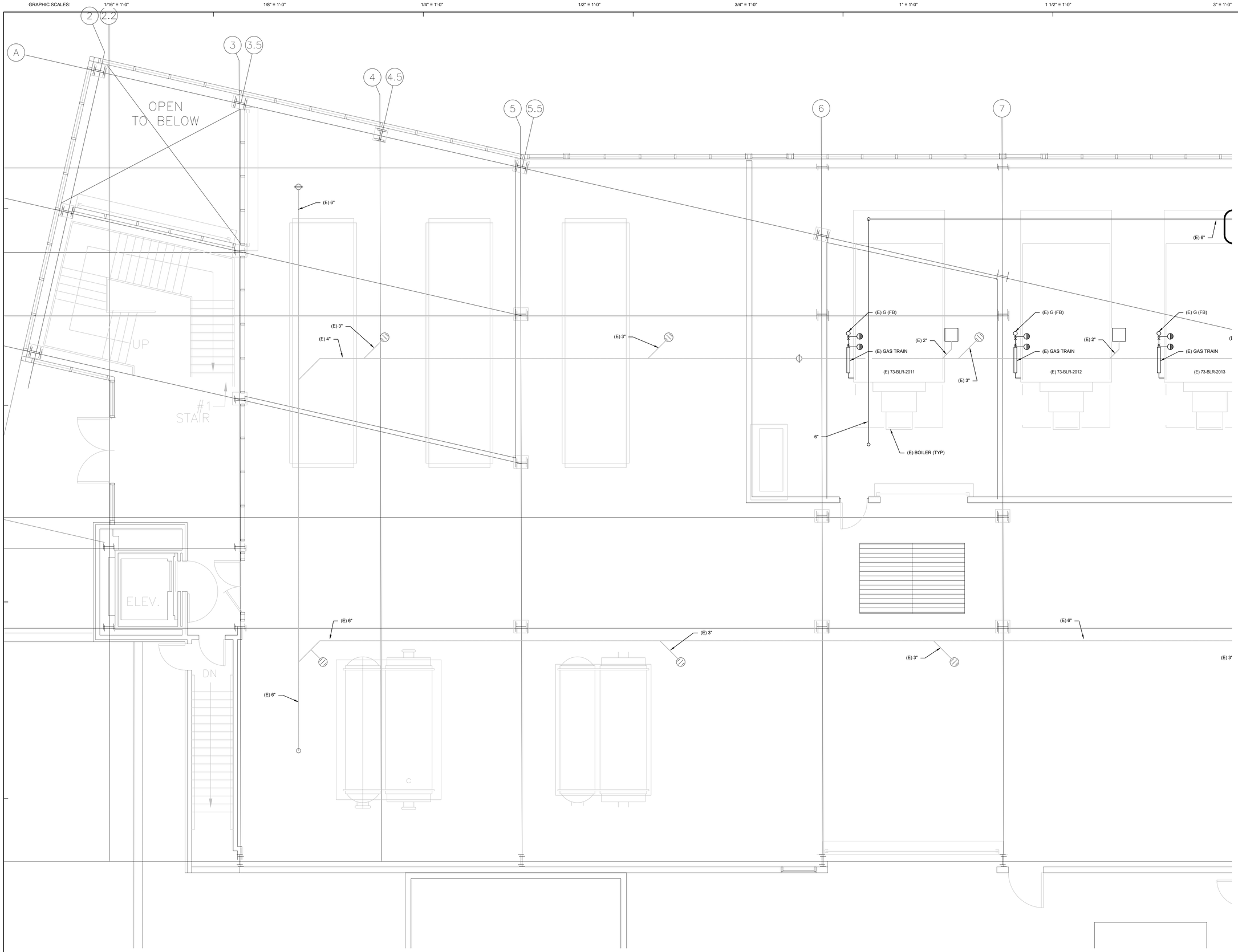

MECHANICAL / PLUMBING DEMO - PARTIAL FIRST FLOOR PLAN - WEST

SCALE: 1/4" = 1'-0"

1 / M1.04

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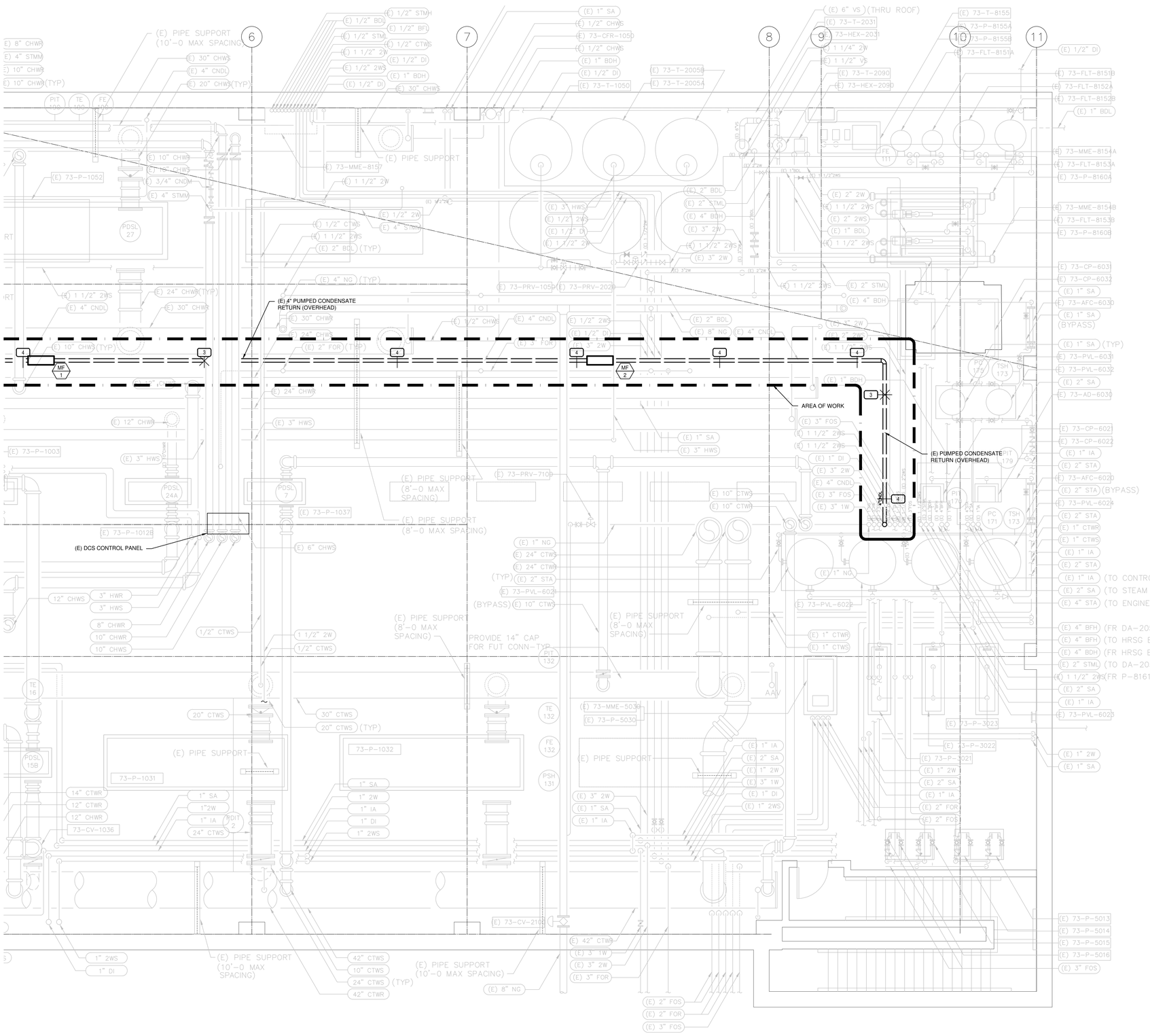

BASEMENT KEYNOTES

1	ADD DRAIN TO BASEMENT TO ELIMINATE TRIPPING HAZARDS, ROUTE VENT FROM INDIVIDUAL DRAINS UNDER SLAB AND RAISE 18" AFF BEFORE COMBINING VENT PIPING. SAW CUT SLAB AS REQUIRED.
2	PROVIDE NEW FLOOR MOUNTED VFD'S FOR CONDENSATE RECEIVER PUMPS.
3	PROVIDE RIGID PUMPED STEAM CONDENSATE RETURN PIPE SUPPORTS. SEE STRUCTURAL DRAWINGS.
4	PROVIDE PUMPED STEAM CONDENSATE RETURN PIPE SUPPORTS. SEE STRUCTURAL DRAWINGS.
5	PROVIDE NEW CONDENSATE FLOW METER AT CAMPUS CONDENSATE RETURN EXTEND PIPING AS REQUIRED FOR INSTRUMENTATION.
6	COORDINATE NEW FLOOR DRAIN TO NOT BE LOCATED ABOVE EXISTING FOOTING.
7	8'X8' CONTRACTOR PROJECT LAY-DOWN AREA. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH THE CUP FACILITY GROUP AHEAD OF CONSTRUCTION.

GENERAL NOTES:

XX/XX SEE M0.01 EQUIPMENT SCHEDULES FOR ITEMS WITH EQUIPMENT HEX TAG.

1 NOT ALL KEY NOTES USED ON EVERY SHEET.

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MECHANICAL - PARTIAL BASEMENT FLOOR PLAN - EAST

SCALE: 1/4" = 1'-0"

1 / M4.01

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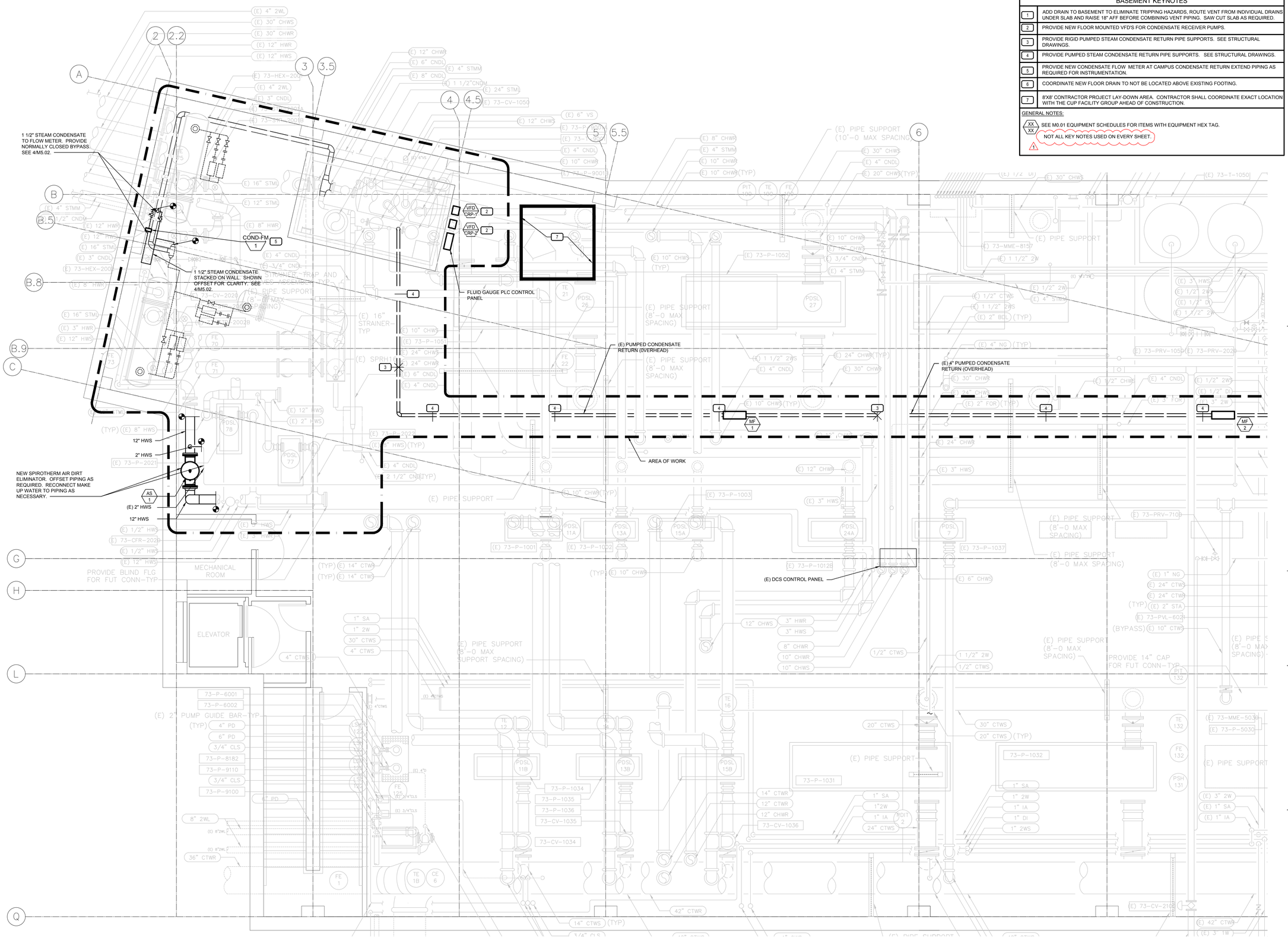

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MECHANICAL - PARTIAL BASEMENT FLOOR PLAN - WEST

SCALE: 1/4" = 1'-0"

1 / M4.02A

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FIRST FLOOR KEYNOTES

1	ADD GAS PIPE LENGTH AND INSTALL FLOW METERS ON AUX BOILER.
2	ADD DRAIN TO BOILER ROOM TO ELIMINATE TRIPPING HAZARDS, ROUTE VENT FROM INDIVIDUAL DRAINS UNDER SLAB AND RAISE 18" AFF BEFORE COMBINING VENT PIPING. SAW CUT SLAB AS REQUIRED.
3	PROVIDE MED PRESSURE BOILER VFD FEED WATER PUMPS
4	PROVIDE PUMPED STEAM CONDENSATE RETURN PIPING SUPPORTS AS REQUIRED. SEE STRUCTURAL DRAWINGS.

GENERAL NOTES:

XX/XX SEE M0.01 EQUIPMENT SCHEDULES FOR ITEMS WITH EQUIPMENT HEX TAG.

NOT ALL KEY NOTES USED ON EVERY SHEET.

CONNECT TO (E) STRAINER, TRAP AND VALVES ASSEMBLY

4" VTR

(E) 4" DA TANK VENT

AREA OF WORK

(E) 4"

(E) 4" PUMPED CONDENSATE RETURN

6" STEAM

AMINE FEED TO MED. PR. STEAM HEADER

AMINE FEED TO LOW PRESSURE STEAM HEADER

(E) 4" PUMPED CONDENSATE RETURN

(E) 4" DA TANK VENT

CONNECT 4" PUMPED CONDENSATE TO (E) CONDENSATE TANK CONNECTION

4" DA TANK VENT

(E) 4" DA TANK VENT

BID ALT 1

MAINTENANCE ROOM

(TO WATER HEATER)

BOILER ROOM

(E) PIPE GUIDE

(TO 73-PNL-7111)

(TO 73-PNL-7081)

FUTURE CENTRIFUGAL CHILLER

MECHANICAL - PARTIAL FIRST FLOOR PLAN - EAST

SCALE: 1/4" = 1'-0"

1 / M4.03

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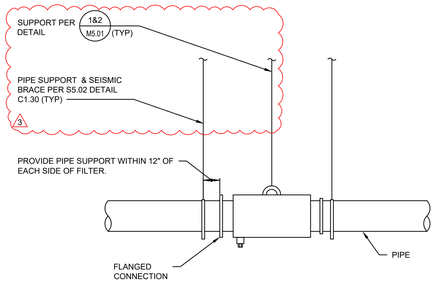
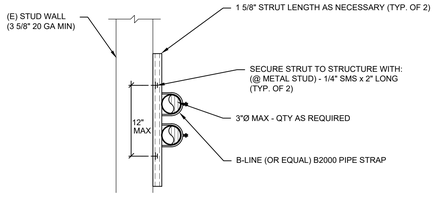


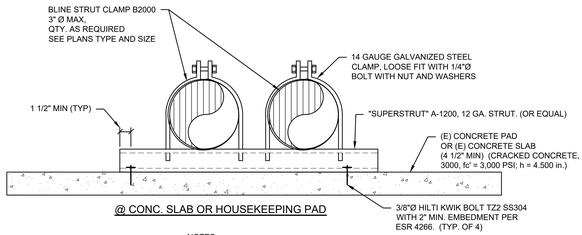
METRAGATOR MOUNTING DETAIL

NTS

9 / M5.01



@ STUD WALL



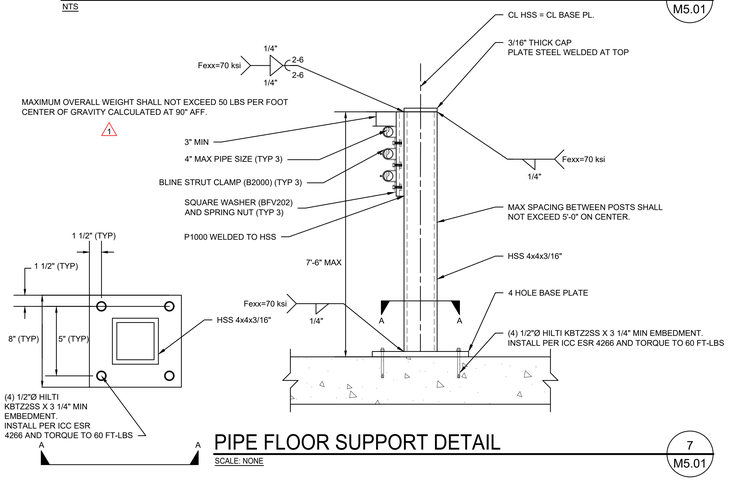
@ CONC. SLAB OR HOUSEKEEPING PAD

PIPE SUPPORT DETAILS

NTS

NOTES:
1. 4'-0" MAXIMUM SPACING FOR PIPE SUPPORTS

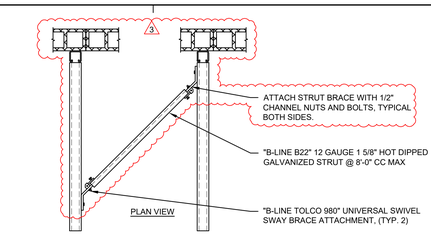
8 / M5.01



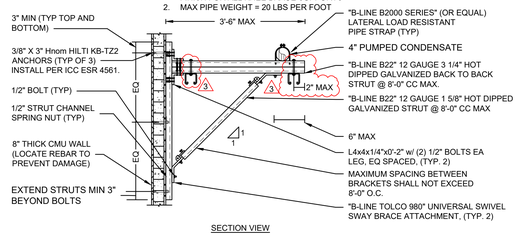
PIPE FLOOR SUPPORT DETAIL

SCALE: NONE

7 / M5.01



NOTE:
1. PROVIDE HOT DIPPED GALVANIZED FINISH FOR ALL KNEE BRACE SUPPORTS
2. MAX PIPE WEIGHT = 20 LBS PER FOOT



SECTION VIEW

KNEE BRACE AT CONCRETE WALL

6 / M5.01

NOT USED - DETAIL DELETED

NTS

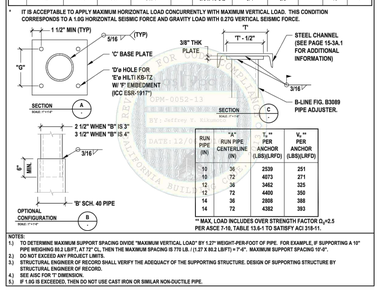
1

5 / M5.01

ADJUSTABLE PIPE STAND ON 4000 PSI NWC SLAB	DETAIL PS-3A

RUN PIPE (IN)	"A" RUN PIPE CENTERLINE (IN)	MAXIMUM VERTICAL LOAD @ CL * (LBS)/ASD)	MAXIMUM HORIZONTAL LOAD @ CL * (LBS)/ASD)	ADJUSTER (B-LINE B3089) (PIPE SIZE-IN.)	"B" STAND PIPE (IN)	"C" BASEPLATE (IN)	"D" HOLE SIZE FOR ANCHOR (IN. DIA.)	"E" HILTI KB-TZ ANCHOR SIZE (IN)	"F" ANCHOR EMBED. (IN) (ref)	"G" ANCHOR SPACING (IN)	"H" MIN ANCHOR TO CONC. EDGE (IN)
10	36	714	562	2-1/2 x 3	3	1/2 x 9-1/2 SQ	5/8	1/2	3-1/4	6-1/2	6
10	72	770	606	2-1/2 x 3	3	5/8 x 13-1/2 SQ	3/4	5/8	4	9-1/2	9
12	36	925	728	2-1/2 x 3	3	1/2 x 9-1/2 SQ	3/4	5/8	4	6-1/2	9
12	72	997	785	3 x 4	4	5/8 x 14-1/2 SQ	3/4	5/8	4	11-1/2	9
14	36	1105	870	2-1/2 x 3	3	1/2 x 13-1/2 SQ	5/8	1/2	3-1/4	9-1/2	6
14	72	1178	880	3 x 4	4	5/8 x 16 SQ	3/4	5/8	4	13	9

* IT IS ACCEPTABLE TO APPLY MAXIMUM HORIZONTAL LOAD CONCURRENTLY WITH MAXIMUM VERTICAL LOAD. THIS CONDITION CORRESPONDS TO A 1.0G HORIZONTAL SEISMIC FORCE AND GRAVITY LOAD WITH 0.27G VERTICAL SEISMIC FORCE.



RUN PIPE (IN)	"A" RUN PIPE CENTERLINE (IN)	V_{cb} ** PER ANCHOR (LBS)/LRFD)	V_{cb} ** PER ANCHOR (LBS)/LRFD)
10	36	2539	251
10	72	4073	271
12	36	3462	335
12	72	4460	350
14	36	2898	368
14	72	4382	393

** MAX. LOAD INCLUDES OVER STRENGTH FACTOR Ω_v=2.5 PER ASCE 7-10, TABLE 13.6-1 TO SATISFY ACI 318-11.

NOTES:
1) TO DETERMINE MAXIMUM SUPPORT SPACING DIVIDE "MAXIMUM VERTICAL LOAD" BY 1.23* WEIGHT-PER-FOOT OF PIPE. FOR EXAMPLE, IF SUPPORTING A 10" SCH 40 PIPE WEIGHING 80.2 LB/FT, AT 72" CL, THEN THE MAXIMUM SPACING IS 770 LB. / (1.23* X 80.2 LB/FT) = 7'-6". MAXIMUM SUPPORT SPACING 10'-0".
2) DO NOT EXCEED ANY PRODUCT LIMITS.
3) STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE SUPPORTING STRUCTURE. DESIGN OF SUPPORTING STRUCTURE BY STRUCTURAL ENGINEER OF RECORD.
4) SEE AISC FOR 'I' DIMENSION.
5) IF 1.5G IS EXCEEDED, THEN DO NOT USE CAST IRON OR SIMILAR NON-DUCTILE PIPE.

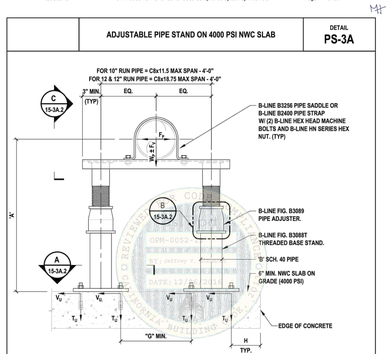
EATON'S B-LINE BUSINESS, 509 WEST MONROE STREET | HIGHLAND, IL 62249, P: (866) 631-7410 | F: (866) 346-1436

Structural Engineer: Mohammad Hariri, California SE No. 53545

PAGE: 15-3A.2 DATE: NOVEMBER 29, 2016

12/06/2016 OPM-0052-13: Reviewed for Code Compliance by Jeffrey Kikumoto Page 474 of 501

ADJUSTABLE PIPE STAND ON 4000 PSI NWC SLAB	DETAIL PS-3A



NOTES:
1) SEE PAGE 15-3A.2 FOR ADDITIONAL DETAIL INFORMATION.

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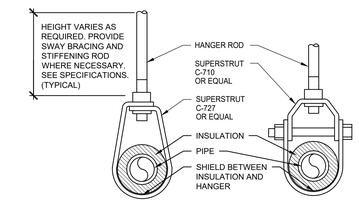
12/06/2016 OPM-0052-13: Reviewed for Code Compliance by Jeffrey Kikumoto Page 473 of 501

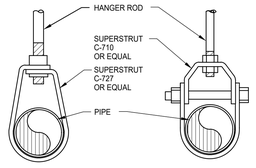
PIPE SUPPORT AT AIR SEPERATOR

NTS

4 / M5.01



INSULATED COPPER PIPE | INSULATED PIPE



UNINSULATED COPPER PIPE | UNINSULATED PIPE

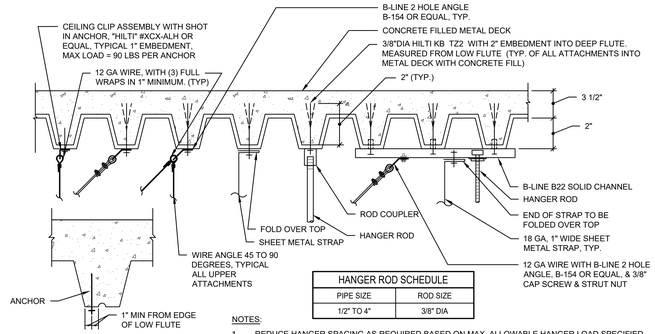
NOTES:
1. FOR HANGER ROD SUPPORT TO STRUCTURE, SEE 1 M5.01 OR 2 M5.01

PIPE HANGER DETAILS

NTS

3 / M5.01

NOTES:
1. BADGER NO-DRILL HANGERS FOR GRAVITY LOADS ONLY. NOT ACCEPTABLE FOR DIAGONAL BRACING. 3" MIN. SPACING BETWEEN HANGERS.
2. INSTALLATION: CLEAN METAL DECKING GROOVES TO EXPOSE PLATED DECKING METAL PRIOR TO PLACEMENT OF THE MDH HANGER. ACCURATELY PLACE MDH HANGER CHISEL POINT ENDS INTO METAL DECKING GROOVES WITH FLAT SURFACE FACING DOWNWARDS AND WITH THE LENGTH OF THE MDH BODY BEING PERPENDICULAR TO THE DECKING GROOVES. WHILE HOLDING THE BODY CHISEL POINT END TIGHT INTO METAL DECKING GROOVE, TIGHTEN TORQUE-OFF HEX NUT UNTIL BOTH CHISEL POINT ENDS ARE TIGHT AND SECURELY WEDGED INTO THE OPPOSING METAL DECKING GROOVES. WHILE HOLDING THE MDH HANGER BODY IN PLACE, TIGHTEN THE TORQUE-OFF HEX NUT WITH AN OPEN END WRENCH UNTIL THE HEX NUT HAS BROKEN AWAY FROM THE THREADED BARREL, LEAVING THE LOCK WASHER COMPRESSED AND THE HEX NUT LOOSE ON THE THREADED SHAFT. FOR REFERENCE, A MINIMUM OF 15 FT-LBS OF TORQUE IS REQUIRED FOR THE MDH3812 AND A MINIMUM OF 20 FT-LBS OF TORQUE IS REQUIRED FOR THE MDH1258.
3. SEE OSHPD OPM-0043 FOR ADDITIONAL INFORMATION.



FLUTE / ANCHOR DETAIL

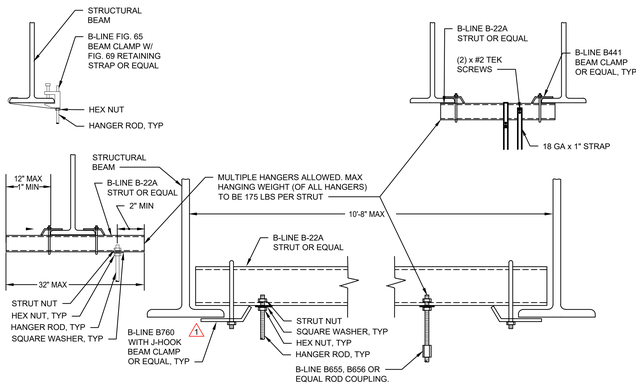
HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
1/2" TO 4"	3/8" DIA

NOTES:
1. REDUCE HANGER SPACING AS REQUIRED BASED ON MAX. ALLOWABLE HANGER LOAD SPECIFIED.
2. REFER TO STRUCTURAL DRAWINGS FOR MINIMUM ANCHOR BOLT EMBEDMENT LENGTHS.
3. MAXIMUM ALLOWABLE HANGER ROD LOAD TO BE 100 LBS.

HANGER ROD ATTACHMENT DETAILS

NTS NTS

2 / M5.01



UPPER ATTACHMENT AT STRUCTURAL I - BEAM

NTS

1 / M5.01

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DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

REGISTERED PROFESSIONAL ENGINEER ADAM C. DAVIS M 34869 EXPIRES 06/30/26 MECHANICAL STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UC DAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

THIS ISSUE:	ISSUED FOR	Date
	100% SD	12/20/2023
	100% DD	03/6/2024
	50% CD	08/19/2024
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1	OSHPD BACKCHECK 1	02/28/2025
3	OSHPD BACKCHECK 2	04/01/2025

HCAI SUBMISSION

Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: HCAI - BLD-0144, UCDH - 073
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: MECHANICAL DETAILS

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. MG	Scale: AS NOTED	M5.01
Designed By: AD	Issue Date: 12/20/2024	
Drawn By: AD	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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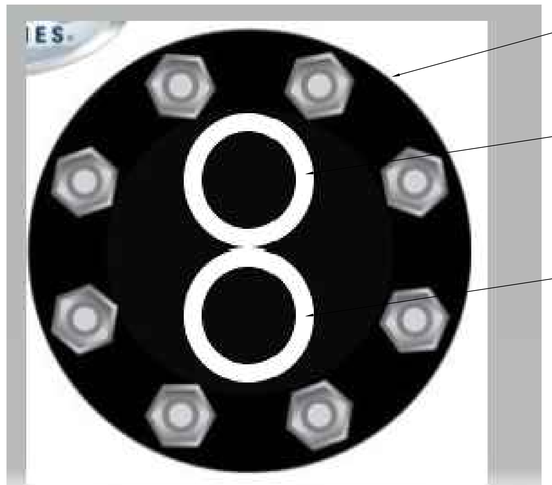
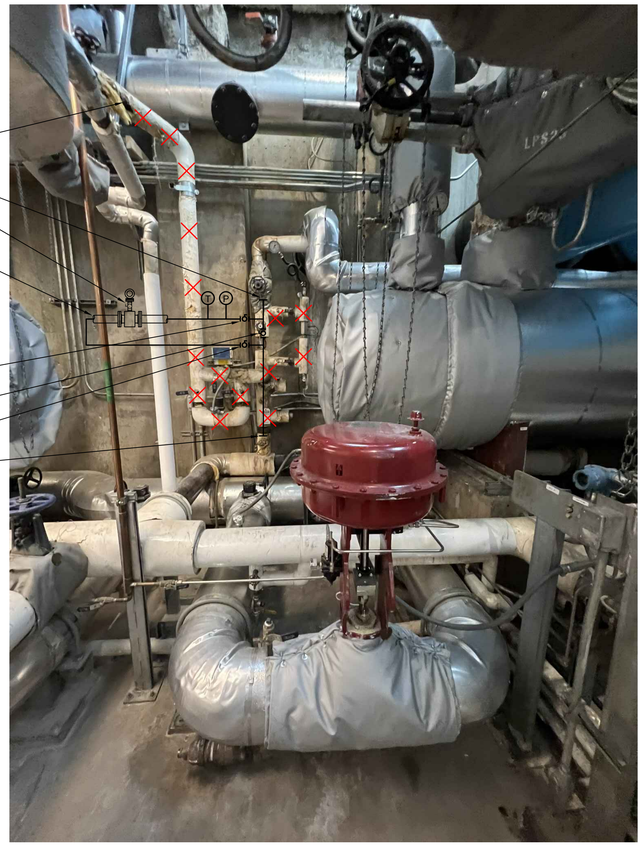
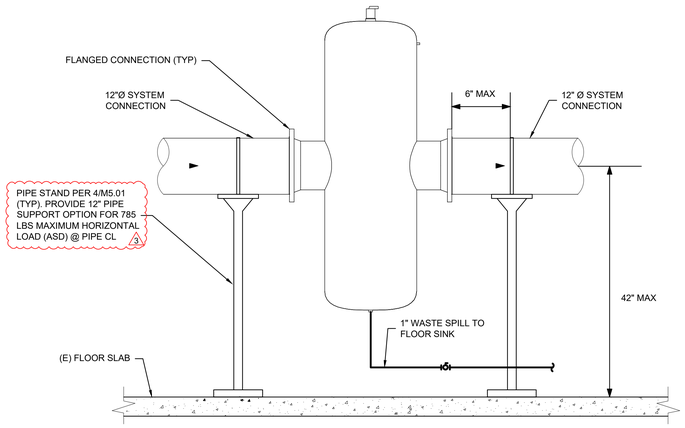


BID ALTERNATE 1 PIPING RECONFIGURATION
NTS
5 M5.02

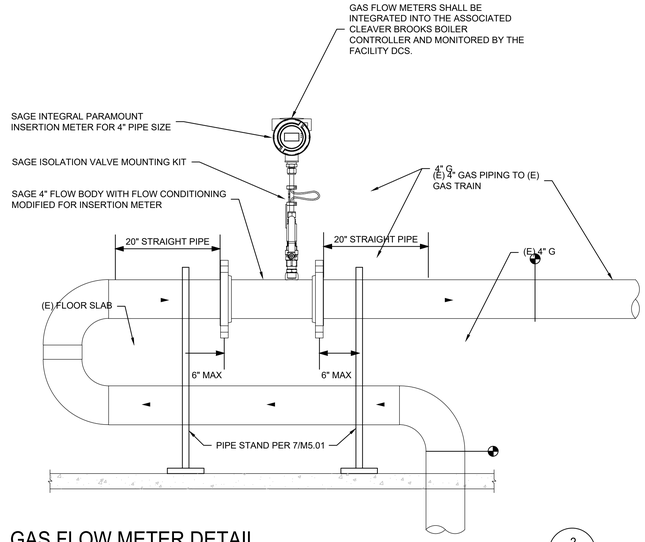


STEAM AND CONDENSATE PIPING DETAIL
NTS
4 M5.02

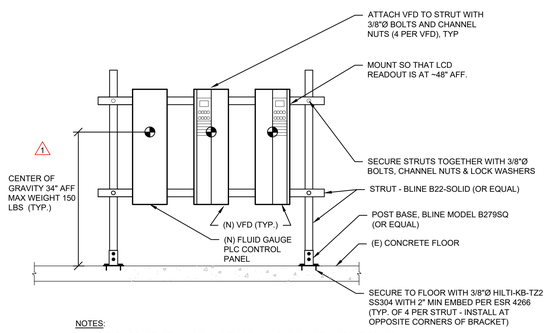


WEIGHT = 1250 LBS

AIR SEPARATOR MOUNTING DETAIL
NTS
3 M5.02



GAS FLOW METER DETAIL
NTS
2 M5.02



NOTES:
1. FIELD LOCATE VFDs. INSTALL WITH 36" MIN. CLEARANCE IN FRONT OF VFDs.
2. MAXIMUM WEIGHT OF ASSEMBLY SHALL NOT EXCEED 400 LBS.

FREE STANDING VFD MOUNTING DETAIL
NTS
1 M5.02

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Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: MECHANICAL DETAILS

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. M5.02
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: AD	Issue Date: 12/20/2024	
Drawn By: AD	ACAD Version: 2022	

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PLUMBING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION	FIXTURE	TRIM	NOTES	FIXTURE UNITS				VENT	WASTE		COLD WATER		HOT WATER	
					WASTE	VENT	CW	HW		BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
FD	FLOOR DRAIN	"ZURN" Z-415B DURA COATED CAST IRON BODY BOTTOM OUTLET FLOOR DRAIN WITH TYPE B POLISHED NICKEL BRONZE LIGHT DUTY HEEL PROOF STRAINER.	PROVIDE ANCHOR FLANGE, SEEPAGE PAN AND CLAMPING COLLAR.	INSTALL FD FLUSH WITH FLOOR	2	2	0	0	2"	3"	3"	-	-	-	-

NOTES:
1. USE PIPE SIZE TABLE FOR SIZING ALL BRANCH WATER, WASTE, & VENT BRANCH PIPES.
2. REFERENCE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
3. WATER BRANCH LINES WHERE LESS THAN 10'-0" LONG MAY BE SAME SIZE AS OUTLETS SCHEDULED ABOVE.

GAS FLOW METER SCHEDULE

UNIT	LOCATION	"SAGE" MODEL	MINIMUM TURNDOWN	LOW END SENSITIVITY	MAX WORKING PRESSURE
GFM 1	73-BLR-2011	SIP-05-15-AC115-NG	100 to 1	5 SFPM	500 PSIG
GFM 2	73-BLR-2012	SIP-05-15-AC115-NG	100 to 1	5 SFPM	500 PSIG
GFM 3	73-BLR-2013	SIP-05-15-AC115-NG	100 to 1	5 SFPM	500 PSIG
GFM 4	73-BLR-2014	SIP-05-15-AC115-NG	100 to 1	5 SFPM	500 PSIG

NOTES:
1. GAS METERS SHALL BE PROVIDED BY RF MACDONALD AND SHALL BE INTEGRATED INTO THE BOILER CONTROL SYSTEM AT EACH BOILER. RF MACDONALD SHALL PROVIDE, INSTALL, INTEGRATE AND VERIFY FUNCTIONALITY. PROVIDE WITH MODBUS COMMUNICATIONS
2. SEE 2/M5.02 FOR MOUNTING DETAILS AND PIPING CONFIGURATION

PLUMBING LEGEND

ABBREVIATIONS

ABC	ABOVE CEILING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
AQ	AQUASTAT
ARCH	ARCHITECT
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BG	BELOW GRADE
BLV	BALL VALVE
CA	COMPRESSED AIR
CAP	CAPACITY
CB	CATCH BASIN
CBV	CALIBRATED BALANCE VALVE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CKV	CHECK VALVE
CL	CENTER LINE
CLG	CEILING
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CO2	CARBON DIOXIDE
COP	CAP ON END OF PIPE
COTF	CLEANOUT TO FLOOR
COTG	CLEANOUT TO GRADE
CP	CIRCULATING PUMP
CR	CONCENTRIC REDUCER
CSK	CLINIC SINK
CV	CONTROL VALVE
CW	DOMESTIC COLD WATER
D	DROP
DCW	DOMESTIC COLD WATER
DD	DECK DRAIN
DET	DETAIL
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DEIONIZED WATER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
FA	FROM ABOVE
FB	FROM BELOW
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FHC	FIRE HOSE RACK & CABINET
FLR	FLOOR
FPM	FEET PER MINUTE
FSH	FIRE SPRINKLER HEAD
FS	FLOOR SINK
FSP	FIRE SPRINKLER PIPE
FT	FEET
FU	FIXTURE UNITS
G	NATURAL GAS
GCO	GRADE CLEAN OUT
GD	GARBAGE DISPOSER
GLV	GLOBE VALUE
GM	GAS METER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GPRV	GAS PRESSURE REGULATOR VALVE
GSCK	GAS COCK
GSV	GAS SEISMIC VALVE
GV	GATE VALVE
GW	GREASE WASTE PIPING
HB	HOSE BIBB
HD	HOPPER DRAIN
HPG	HIGH PRESSURE NATURAL GAS
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
ICW	INDUSTRIAL COLD WATER
IHW	INDUSTRIAL HOT WATER
IHWR	INDUSTRIAL HOT WATER RETURN
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IW	INDIRECT WASTE
LA	LABORATORY AIR
LAV	LAVATORY
LBS	POUNDS
LG	LABORATORY GAS
LP	LOW PRESSUE
LWT	LEAVING WATER TEMPERATURE
MA	MEDICAL AIR
MAX	MAXIMUM
MFR	MANUFACTURER
MGC	MEDICAL GAS COLUMN
MIN	MINIMUM
MISC	MISCELLANEOUS
MPG	MEDIUM PRESSURE NATURAL GAS
(N)	NEW
N2	NITROGEN
N2O	NITROUS OXIDE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OFCI	OWNWER FURNISHED CONTRACTOR INSTALLED
ORD	OVERFLOW ROOF DRAIN
ORWL	OVERFLOW RAIN WATER LEADER
OH	OVERHEAD
P&TRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING
P/L	PROPERTY LINE
PAN	PIPE ANCHOR
PG	PRESSURE GAUGE
PL	PLATE
PLBG	PLUMBING
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECT
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUGGED TEE
R	RISE / RISER
RD	ROOF DRAIN
RET	RETURN
RIO	ROUGH IN ONLY
RM	ROOM
RO	REVERSE OSMOSIS WATER
RV	RELIEF VALVE
RWL	RAINWATER LEADER
SCD	SECONDARY CONDENSATE DRAIN
SCH	SCHEDULE
SCW	COLD SOFT WATER
SD	STORM DRAIN
SH	SHOWER
SHT	SHEET
SHW	HOT SOFT WATER
SHWR	HOT SOFT WATER RETURN
SK	SINK
SMS	SHEET METAL SCREW
SOV	SHUT OFF VALVE
SS	STAINLESS STEEL
STD	STANDARD
STR	STRAINER
TA	TO ABOVE
TB	TO BELOW
TEMP.	TEMPERATURE
TH	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TYP	TYPICAL
TW	TEMPERED WATER
UC	UNDER COUNTER
UF	UNDER FLOOR
UG	UNDERGROUND
UN	UNION OR FLANGE
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	SANITARY VENT
VB	VALVE BOX
VAC	MEDICAL VACUUM
VR	VENT RISER
VTR	VENT THRU ROOF
W	SANITARY WASTE
WD	WASTE DROP
W/	WITH
WO	WITHOUT
WAGD DISPOSAL	WASTE ANESTHESIA GAS
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WASTE DROP
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTER
WM	WATER METER
WSP	WET STANDPIPE

SYMBOLS

DOMESTIC COLD WATER LINE	ITEM TO BE REMOVED / DEMOED
DOMESTIC HOT WATER	ITEM TO BE ABANDONED IN PLACE
DOMESTIC HOT WATER RETURN	BALL VALVE
SOIL OR WASTE LINE BELOW GRADE	BALANCE VALVE
SOIL OR WASTE LINE ABOVE GRADE	UNION
INDIRECT WASTE LINE	TEMP., & PRESSURE RELIEF LINE
VENT LINE	VALVE BOX
RAINWATER LEADER LINE	DRAIN (TOP OF PIPE)
OVERFLOW RAINWATER LEADER LINE	COTF CLEANOUT TO FLOOR
CONDENSATE DRAIN	COTG CLEANOUT TO GRADE
NATURAL GAS LINE (LOW PRESSURE)	CO CLEANOUT
MEDIUM PRESSURE NATURAL GAS LINE	FLOOR DRAIN
MEDICAL AIR	FLOOR SINK
MEDICAL VACUUM	GAS TURRET
MEDICAL OXYGEN	HOSE BIBB
NITROGEN	ROOM NAME, KAISER ROOM CODE, AND NUMBER
NITROUS OXIDE	
FIRE PROTECTION LINE	
COMPRESSED AIR	
FLOW IN DIRECTION OF ARROW	
REDUCER	

GENERAL NOTES

1. MECHANICAL AND PLUMBING DETAILS APPLY TO ALL BUILDINGS WHETHER REFERENCED OR NOT.
2. CONTRACTOR TO OFFSET AND PIPING AROUND EXISTING CONDITIONS.
3. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY OFFSET, FITTING, OR STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF WORK. THE CONTRACTORS SHALL COORDINATE LOCATION OF ALL DUCTWORK AND PIPING WITH ALL OTHER TRADES ON THIS PROJECT. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
4. ALL VALVES SHALL BE FULL LINE SIZES UNLESS NOTED OTHERWISE.
5. PIPING SHALL BE SUPPORTED IN ACCORDANCE TO OPM-0043-13 BY MASON WEST.
6. THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2016 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2016 CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDS) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
7. MECHANICAL DETAILS SHEETS APPLY TO THE PLUMBING DRAWINGS. REFERENCE M5.01 & M5.02.

APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFIRM TO THE FOLLOWING CODES AND REGULATIONS:

1. CALIFORNIA CODE OF REGULATIONS - TITLE 24
2. CALIFORNIA BUILDING CODE, 2022
3. CALIFORNIA MECHANICAL CODE, 2022
4. CALIFORNIA PLUMBING CODE, 2022
5. CALIFORNIA FIRE CODE, 2022
6. CALIFORNIA ELECTRICAL CODE, 2022
7. CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, 2022

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IF FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

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Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PLUMBING SCHEDULES LEGENDS & NOTES

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. P0.01
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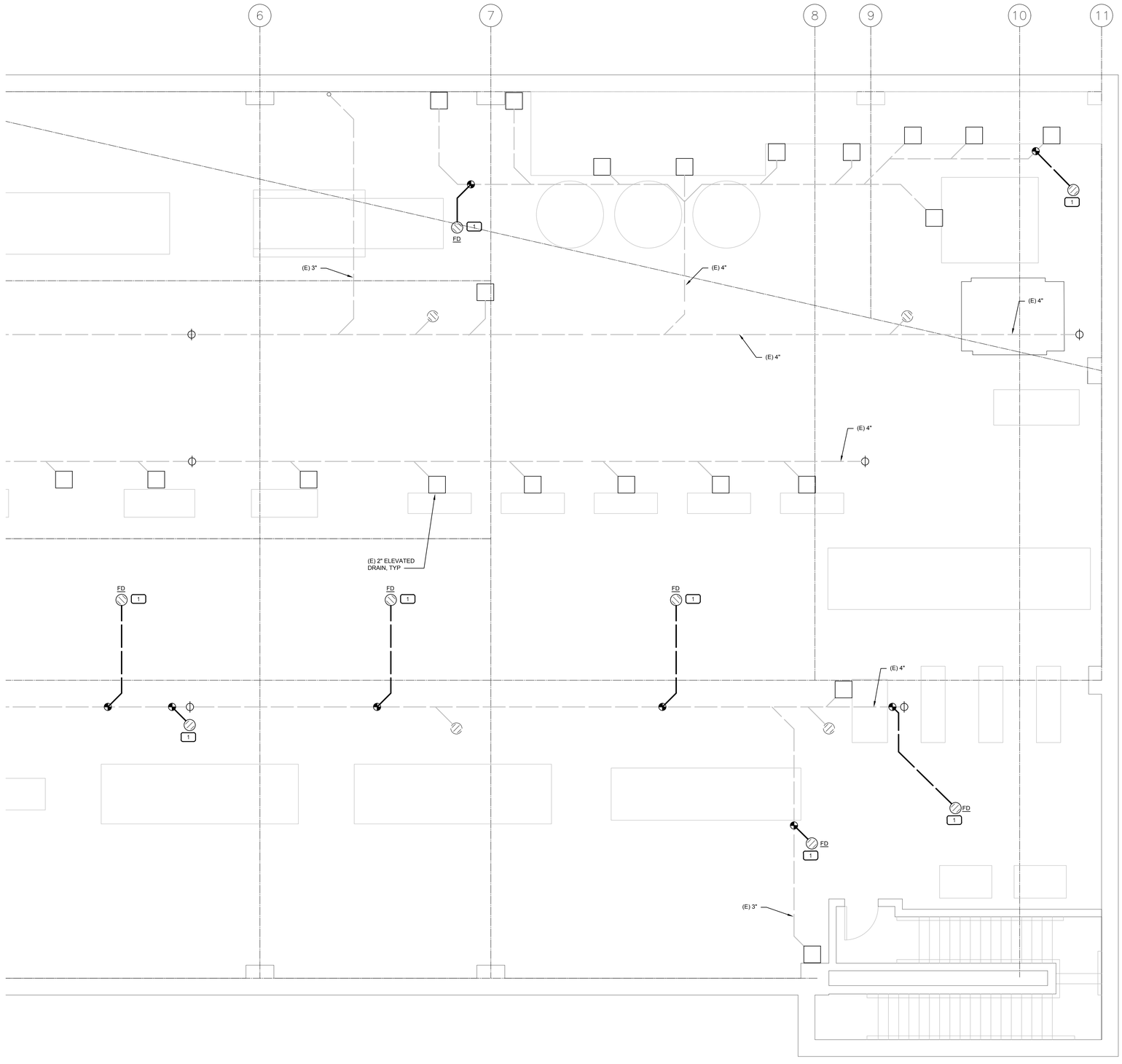

BASEMENT KEYNOTES

1	ADD DRAIN TO BASEMENT TO ELIMINATE TRIPPING HAZARDS, ROUTE VENT FROM INDIVIDUAL DRAINS UNDER SLAB AND RAISE 18" AFF BEFORE COMBINING VENT PIPING. SAW CUT SLAB AS REQUIRED.
2	PROVIDE NEW FLOOR MOUNTED VFD'S FOR CONDENSATE RECEIVER PUMPS.
3	PROVIDE RIGID PUMPED STEAM CONDENSATE RETURN PIPE SUPPORTS. SEE STRUCTURAL DRAWINGS.
4	PROVIDE PUMPED STEAM CONDENSATE RETURN PIPE SUPPORTS. SEE STRUCTURAL DRAWINGS.
5	PROVIDE NEW CONDENSATE FLOW METER AT CAMPUS CONDENSATE RETURN EXTEND PIPING AS REQUIRED FOR INSTRUMENTATION.
6	COORDINATE NEW FLOOR DRAIN TO NOT BE LOCATED ABOVE EXISTING FOOTING.
7	8'X8' CONTRACTOR PROJECT LAY-DOWN AREA. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH THE CUP FACILITY GROUP AHEAD OF CONSTRUCTION.

GENERAL NOTES:

XX/XX SEE M0.01 EQUIPMENT SCHEDULES FOR ITEMS WITH EQUIPMENT HEX TAG.

1 NOT ALL KEY NOTES USED ON EVERY SHEET.

PLUMBING - PARTIAL BASEMENT FLOOR PLAN - EAST

SCALE: 1/4" = 1'-0"

1 / P4.01

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DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

REGISTERED PROFESSIONAL ENGINEER ADAM C. DAVIS M 34869 EXPIRES 06/30/26 MECHANICAL STATE OF CALIFORNIA

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WAME PROJECT #: 22-023

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1	OSHPD BACKCHECK 1	02/28/2025

HCAI SUBMISSION

Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: HCAI - BLD-0144, UCDH - 073
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PLUMBING PARTIAL BASEMENT FLOOR PLAN - EAST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. P4.01
UCDMC Project Mgr. MG	Scale: AS NOTED	
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Drawn By: AD	ACAD Version: 2022	

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BASEMENT KEYNOTES

1	ADD DRAIN TO BASEMENT TO ELIMINATE TRIPPING HAZARDS, ROUTE VENT FROM INDIVIDUAL DRAINS UNDER SLAB AND RAISE 18" AFF BEFORE COMBINING VENT PIPING. SAW CUT SLAB AS REQUIRED.
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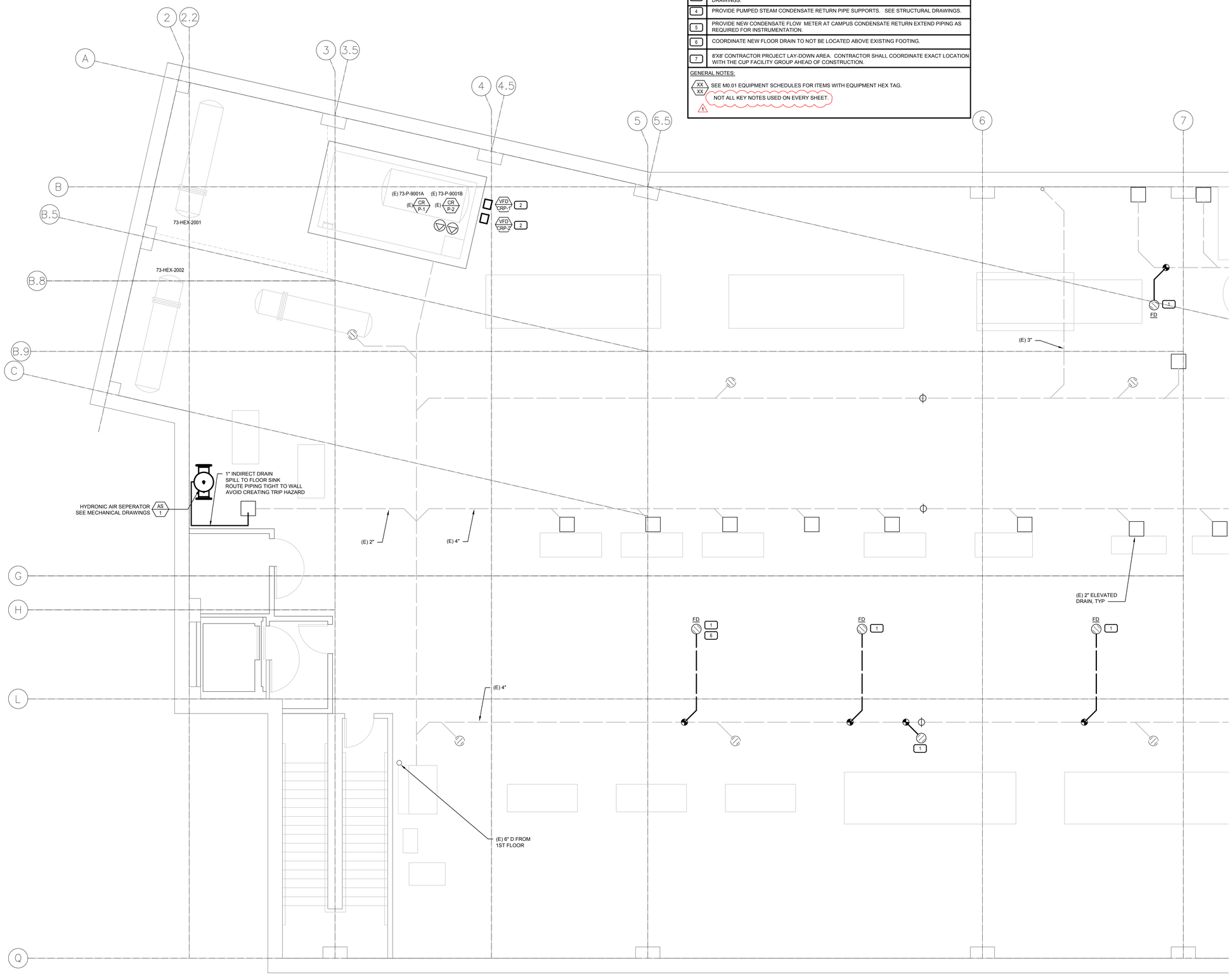

PLUMBING - PARTIAL BASEMENT FLOOR PLAN - WEST

SCALE: 1/4" = 1'-0"

1 / P4.02

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UCDMC Project Mgr. MG	Scale: AS NOTED	
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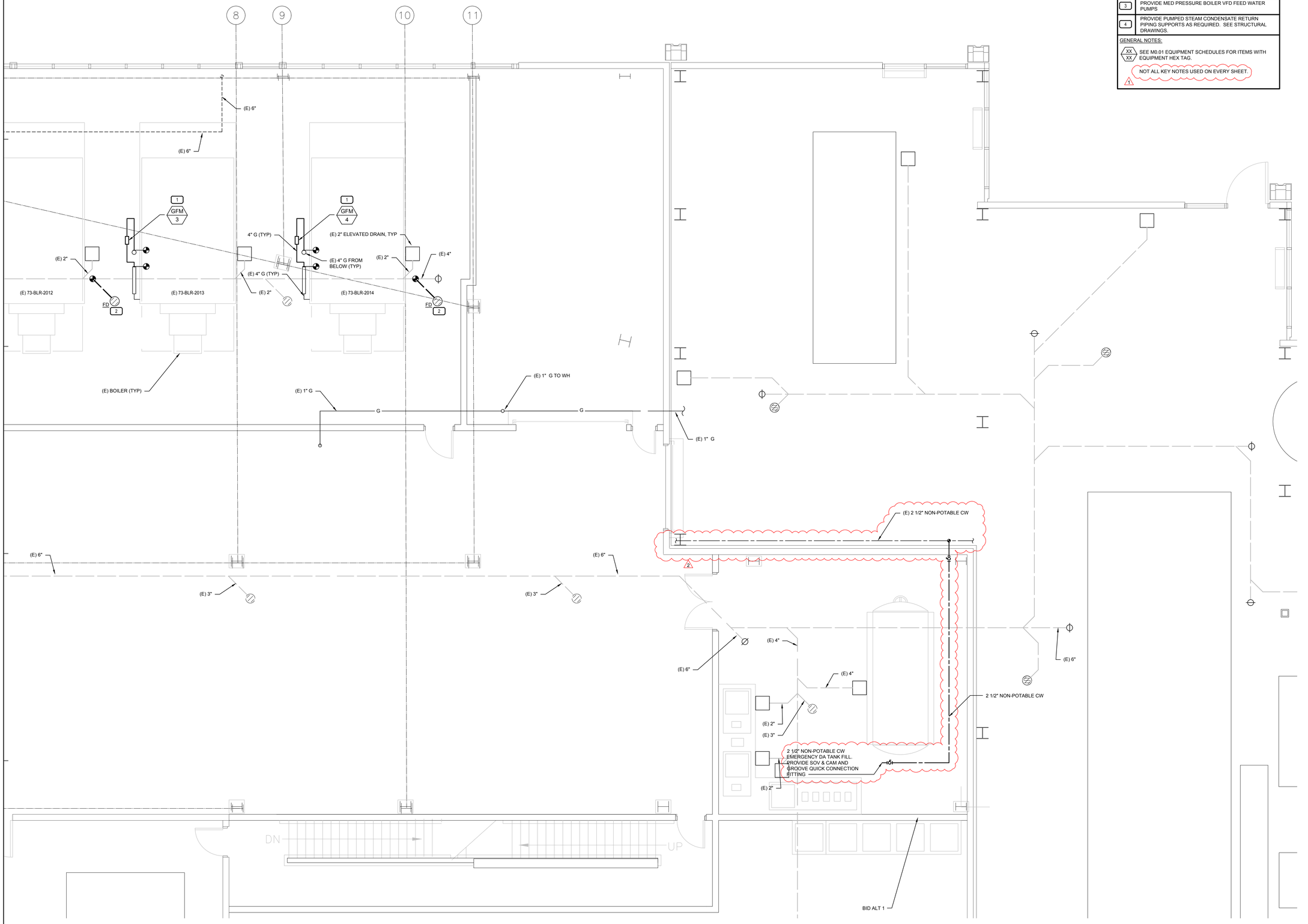

PLUMBING - PARTIAL FIRST FLOOR PLAN - EAST

SCALE: 1/4" = 1'-0"

1 / M4.03

N

FIRST FLOOR KEYNOTES

1	ADD GAS PIPE LENGTH AND INSTALL FLOW METERS ON AUX BOILER.
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2	DESIGN REVISION	02/28/2025

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Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PLUMBING PARTIAL FIRST FLOOR PLAN - EAST

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. P4.03
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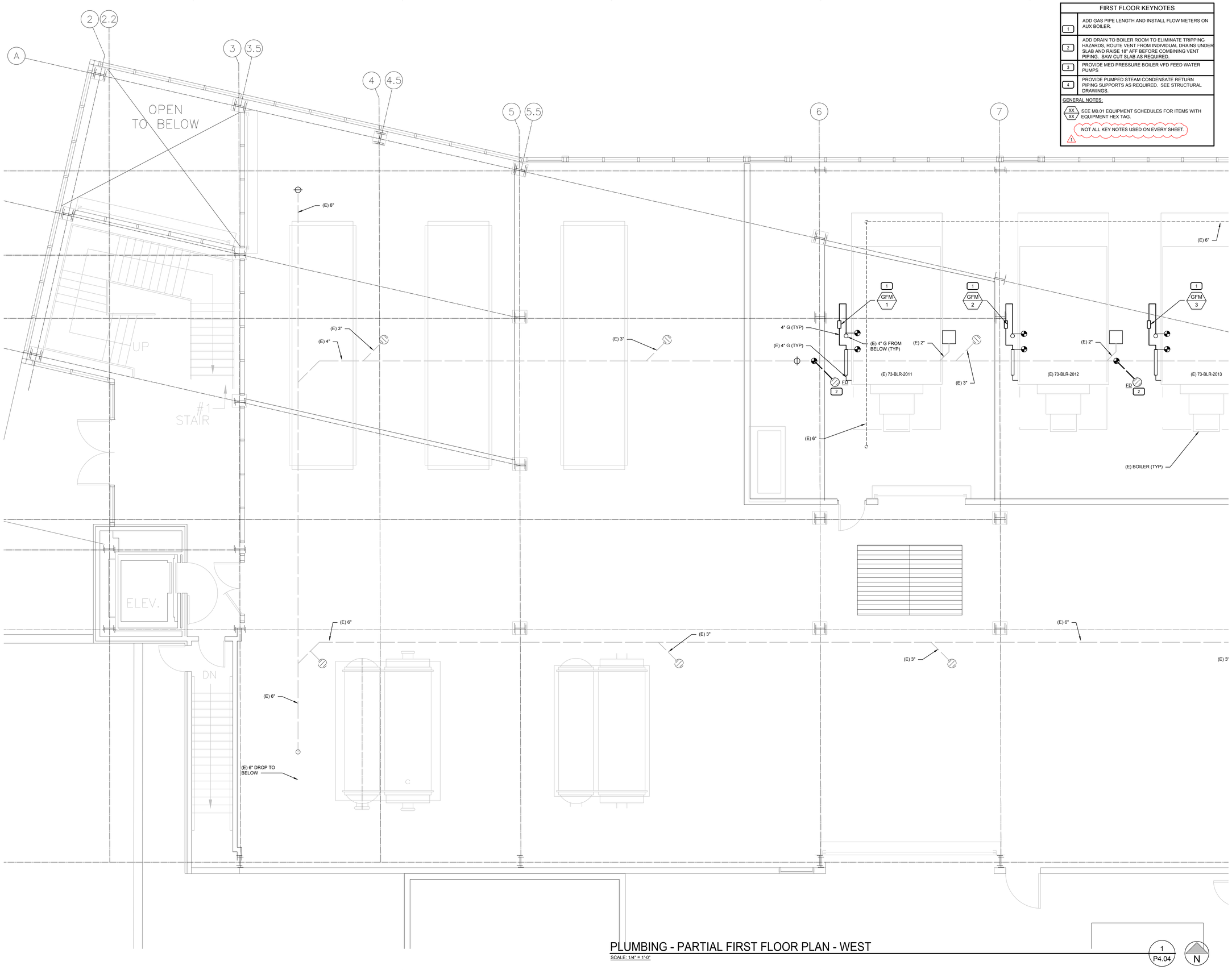

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PLUMBING - PARTIAL FIRST FLOOR PLAN - WEST

SCALE: 1/4" = 1'-0"

1 / P4.04

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WAME PROJECT #: 22-023

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Sheet Title: PLUMBING PARTIAL FIRST FLOOR PLAN - WEST

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ABBREVIATIONS

1PH, 3PH	1 PHASE, 3 PHASE
1P, 2P, 3P	1 POLE, 2 POLE, 3 POLE
3W, 4W	3 WIRE, 4 WIRE
(D)	DEMO, DEMOLISH
(E)	EXISTING
(ER)	EXISTING RELOCATED
(N)	NEW
(R)	RELOCATE
-A-	
A, AMPS	AMPERES
AC	ALTERNATING CURRENT
AF	FRAME RATING IN AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL, ALUM	ALUMINUM
ATS	AUTO TRANSFER SWITCH
AT	TRIP RATING IN AMPERES
AWG	AMERICAN WIRE GAUGE
-B-	
BTR	BUILDING TELECOM ROOM
-C-	
C	CONDUIT
CB,C/B	CIRCUIT BREAKER
CEC	CALIFORNIA ELECTRICAL CODE
CT	CURRENT TRANSFORMER
CU	COPPER
-D-	
DC	DIRECT CURRENT
-E-	
EA	EACH
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
-F-	
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
FT	FOOT OR FEET
-G-	
G. GND	GROUND
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
-H-	
HOA	HAND-OFF-AUTO
HP	HORSE POWER
-J-	
J-BOX	JUNCTION BOX
-K-	
KVA	ONE THOUSAND VOLT-AMPS
KW	ONE THOUSAND WATTS
-L-	
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
-M-	
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MT	EMPTY CONDUIT W/ PULL-LINE
-N-	
NC	NORMALLY CLOSED
NCTC	NURSE CALL TERMINAL CABINET
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NIES	NOT INCLUDED IN ELECTRICAL SCOPE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
-O-	
OCP	OVER-CURRENT PROTECTION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
-P-	
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
-R-	
RLA	RUNNING LOAD AMP
RSC	RIGID STEEL CONDUIT
-S-	
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SST	SOLID STATE TRIP
-T-	
TER	TELECOM EQUIPMENT ROOM
TR	TELECOM ROOM
TM	THERMAL MAGNETIC
TTB	TERMINAL BACKBOARD
-U-	
UG	UNDERGROUND
UL	UNDERWRITERS LAB.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
-V-	
V	VOLTS
VA	VOLT-AMPS
VAC	VOLTS ALTERNATE CURRENT
-W-	
W	WATTS
WCR	WITHSTAND & CLOSING RATING
WP	WEATHERPROOF
-X-	
XFMR	TRANSFORMER
XFER	TRANSFER SWITCH

POWER DISTRIBUTION SYMBOLS

SYMBOL	DESCRIPTION
x	NON FUSED DISCONNECT SWITCH. NUMBER ADJACENT INDICATES AMPERE RATING OF SWITCH. MOUNT AT +48" AFF TO TOP OF DISCONNECT.
⊠	CONTROL AND/OR EQUIPMENT, PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS INDICATED.
VFD	VARIABLE FREQUENCY DRIVE, PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS INDICATED.

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
XX	NUMBERED NOTE.
-	ENLARGED PLAN OR DETAIL CALL-OUT.

GENERAL ELECTRICAL NOTES

1. WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS SHOWN IN THE DETAILS ARE FOR REFERENCE ONLY. THROUGH- PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR HCAI FLSO REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. ALL ELECTRICAL EQUIPMENT TO BE INSTALLED OR PERMANENTLY CONNECTED (HARDWIRED) SHALL BE LISTED, LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PER CEC 110.2.
3. ALL EQUIPMENT SHALL BE USED IN ACCORDANCE WITH LISTING PER CEC 110.3B.

SHEET INDEX

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ADAM DAVIS No. E 18416 ELECTRICAL STATE OF CALIFORNIA
12/20/2024

DESIGN PROFESSIONALS OF RECORD:

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WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

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Sheet Title: ABBREVIATIONS, SYMBOLS, & SHEET INDEX

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO. E0.01
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Designed By: GORDON	Issue Date: 12/20/2024	
Drawn By: BRIANNA	ACAD Version: 2022	

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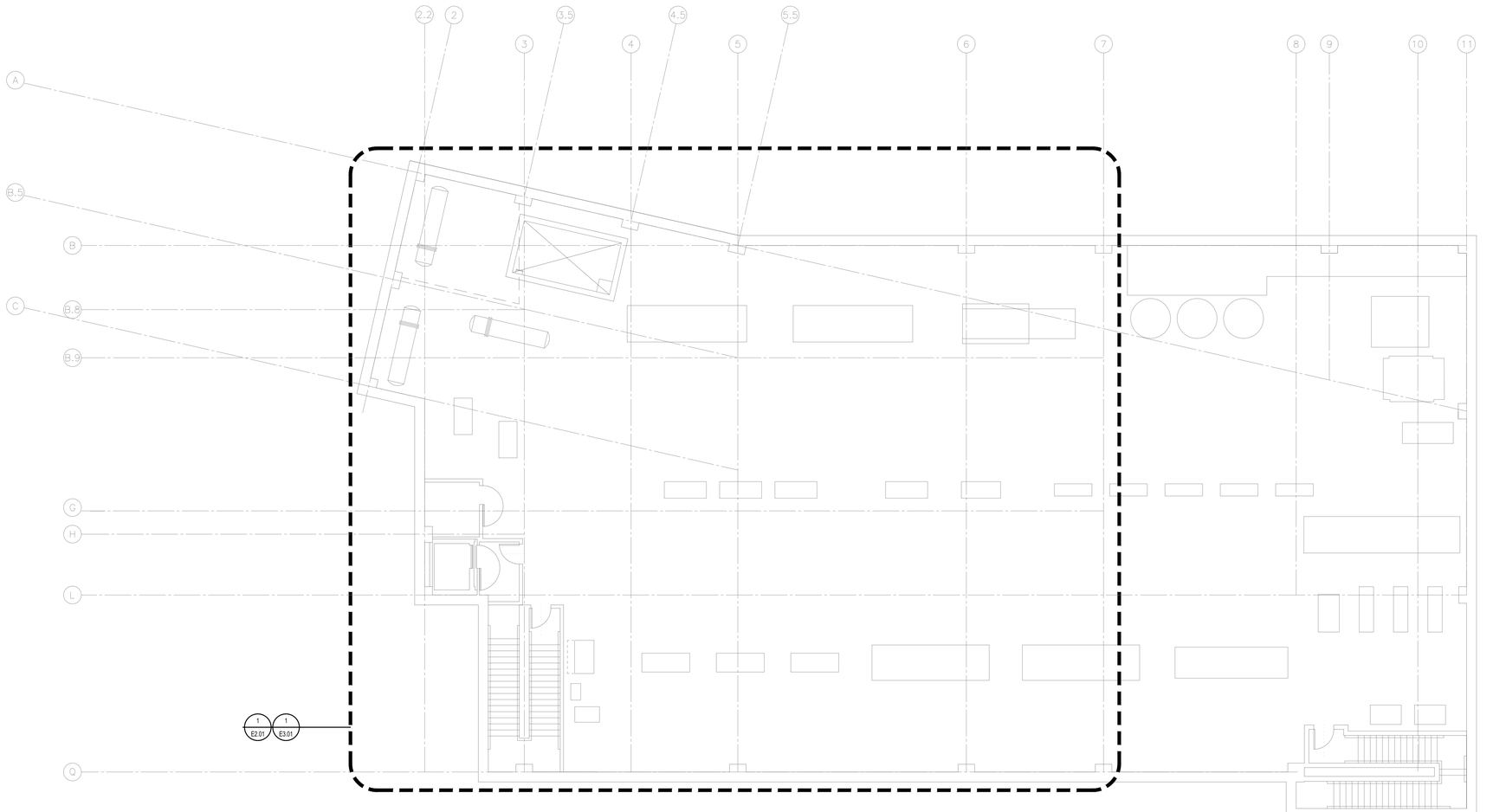

1 OVERALL BASEMENT FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

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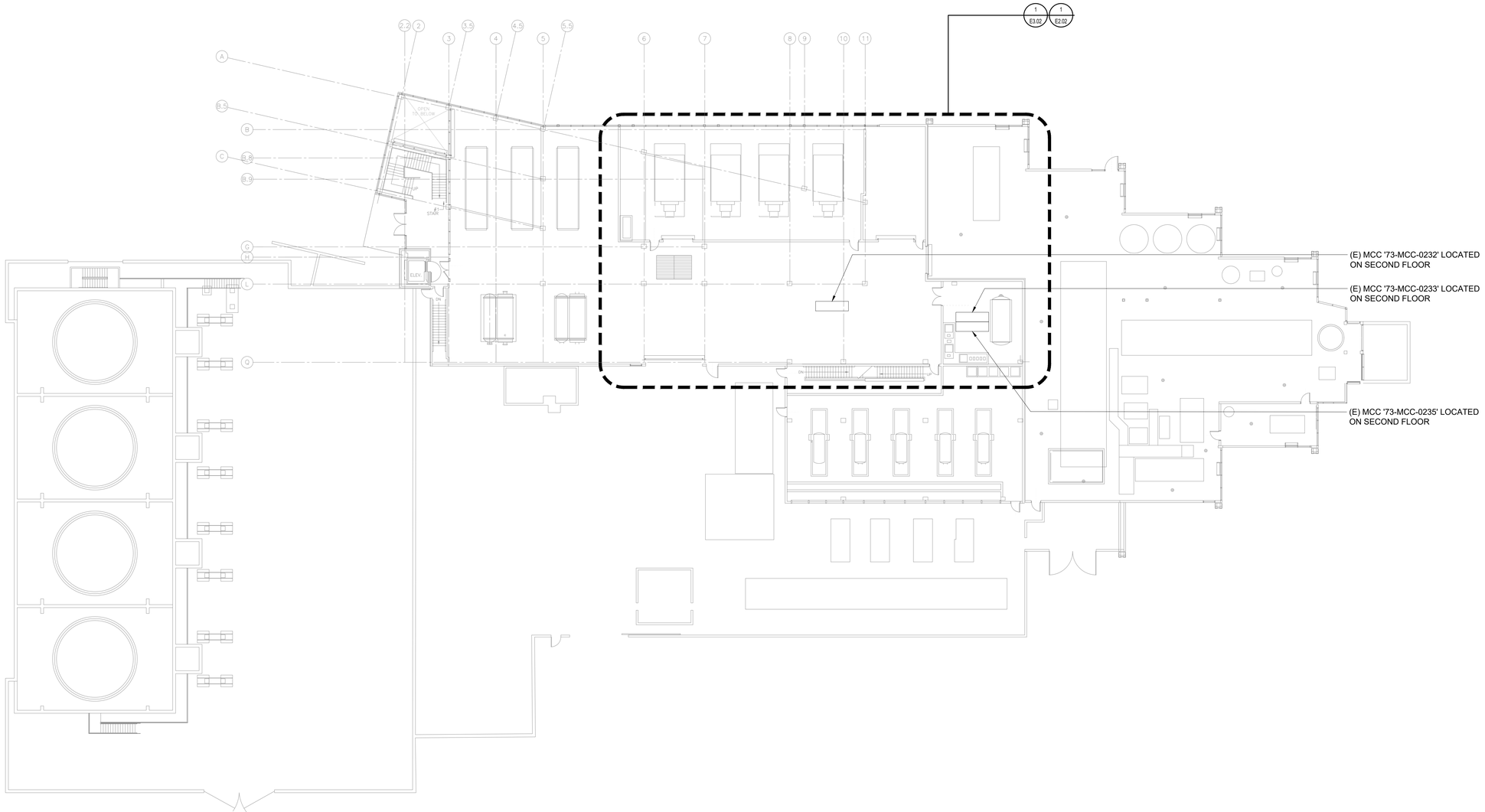

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Designed By: GORDON	Issue Date: 12/20/2024	
Drawn By: BRIANNA	ACAD Version: 2022	

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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NUMBERED NOTES

1. (E) PUMP CONTROL PANEL WITH INTEGRAL DISCONNECTS FOR CONDENSATE PUMPS 1 AND 2 SHALL BE REMOVED. FED FROM 73-MCC-0233. (E) CIRCUIT SHALL BE REUSED. REFER TO SHEET E3.01.

1 PARTIAL BASEMENT FLOOR PLAN - DEMO ELECTRICAL (WEST)
SCALE: 1/4" = 1'-0"

NORTH

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access and Information
Office of Statewide Hospital Planning and Development
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Tony Tan

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

ADAM DAVIS No. E 18495 ELECTRICAL STATE OF CALIFORNIA
12/20/2024

DESIGN PROFESSIONALS OF RECORD:

UC DAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
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(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

EDGE Sustainable Solutions
Project Number K179
Contact GORDON
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

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	100% CD	10/01/2024

HCAI SUBMISSION

Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: HCAI - BLD-0144, UCDH - 073
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL BASEMENT FLOOR PLAN - DEMO ELECTRICAL (WEST)

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. MG	Scale: AS NOTED	E2.01
Designed By: GORDON	Issue Date: 12/20/2024	
Drawn By: BRIANNA	ACAD Version: 2022	

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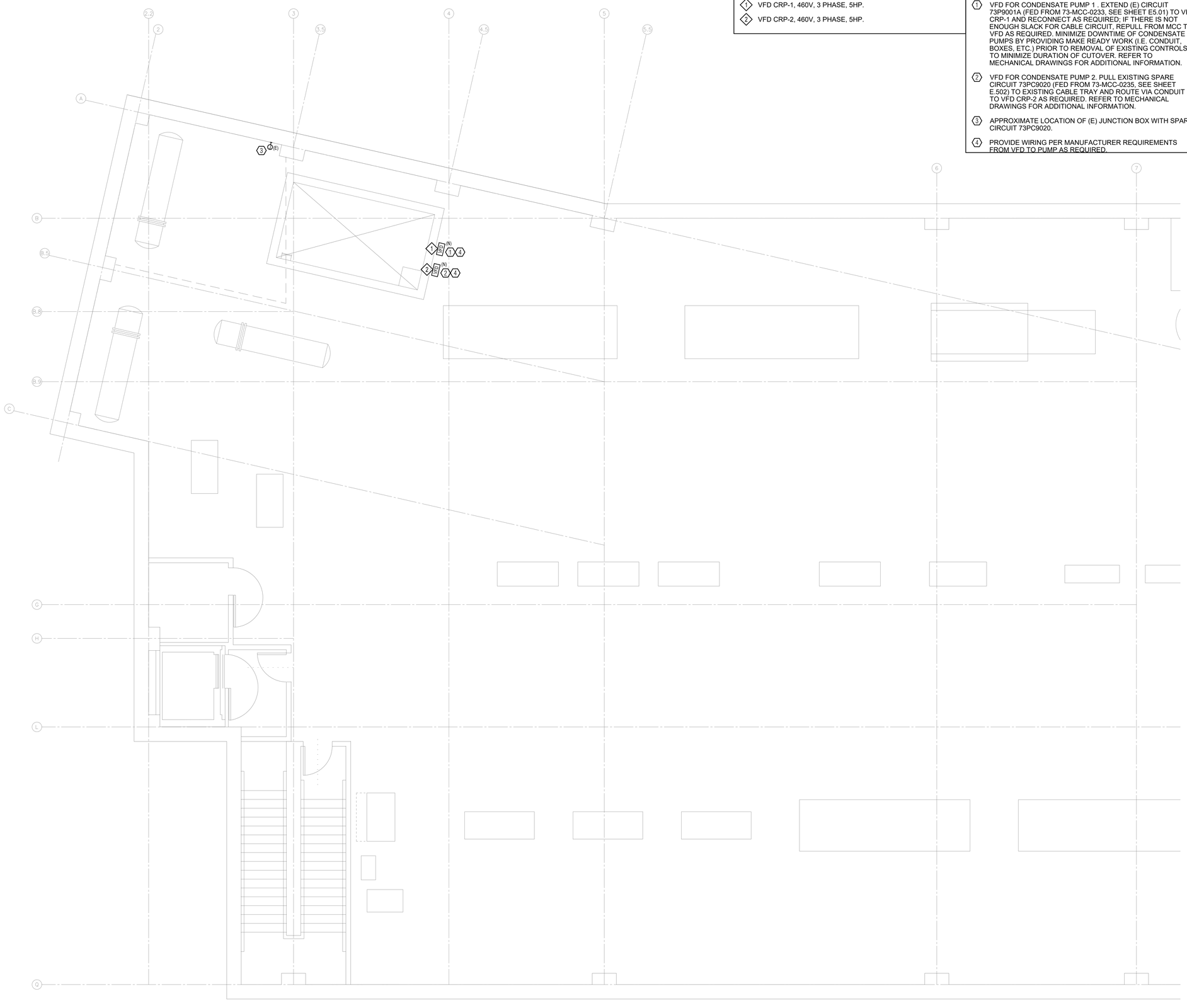
EQUIPMENT LIST

1. VFD CRP-1, 460V, 3 PHASE, 5HP.
2. VFD CRP-2, 460V, 3 PHASE, 5HP.

NUMBERED NOTES

1. VFD FOR CONDENSATE PUMP 1 . EXTEND (E) CIRCUIT 73P9001A (FED FROM 73-MCC-0233, SEE SHEET E5.01) TO VFD CRP-1 AND RECONNECT AS REQUIRED; IF THERE IS NOT ENOUGH SLACK FOR CABLE CIRCUIT, REPULL FROM MCC TO VFD AS REQUIRED. MINIMIZE DOWNTIME OF CONDENSATE PUMPS BY PROVIDING MAKE READY WORK (I.E. CONDUIT, BOXES, ETC.) PRIOR TO REMOVAL OF EXISTING CONTROLS TO MINIMIZE DURATION OF CUTOVER. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. VFD FOR CONDENSATE PUMP 2. PULL EXISTING SPARE CIRCUIT 73PC9020 (FED FROM 73-MCC-0235, SEE SHEET E.502) TO EXISTING CABLE TRAY AND ROUTE VIA CONDUIT TO VFD CRP-2 AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. APPROXIMATE LOCATION OF (E) JUNCTION BOX WITH SPARE CIRCUIT 73PC9020.
4. PROVIDE WIRING PER MANUFACTURER REQUIREMENTS FROM VFD TO PUMP AS REQUIRED.



1 PARTIAL BASEMENT FLOOR PLAN - NEW ELECTRICAL (WEST)
SCALE: 1/4" = 1'-0"

NORTH

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Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL BASEMENT FLOOR PLAN - NEW ELECTRICAL (WEST)

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. MG	Scale: AS NOTED	E3.01
Designed By: GORDON	Issue Date: 12/20/2024	
Drawn By: BRIANNA	ACAD Version: 2022	

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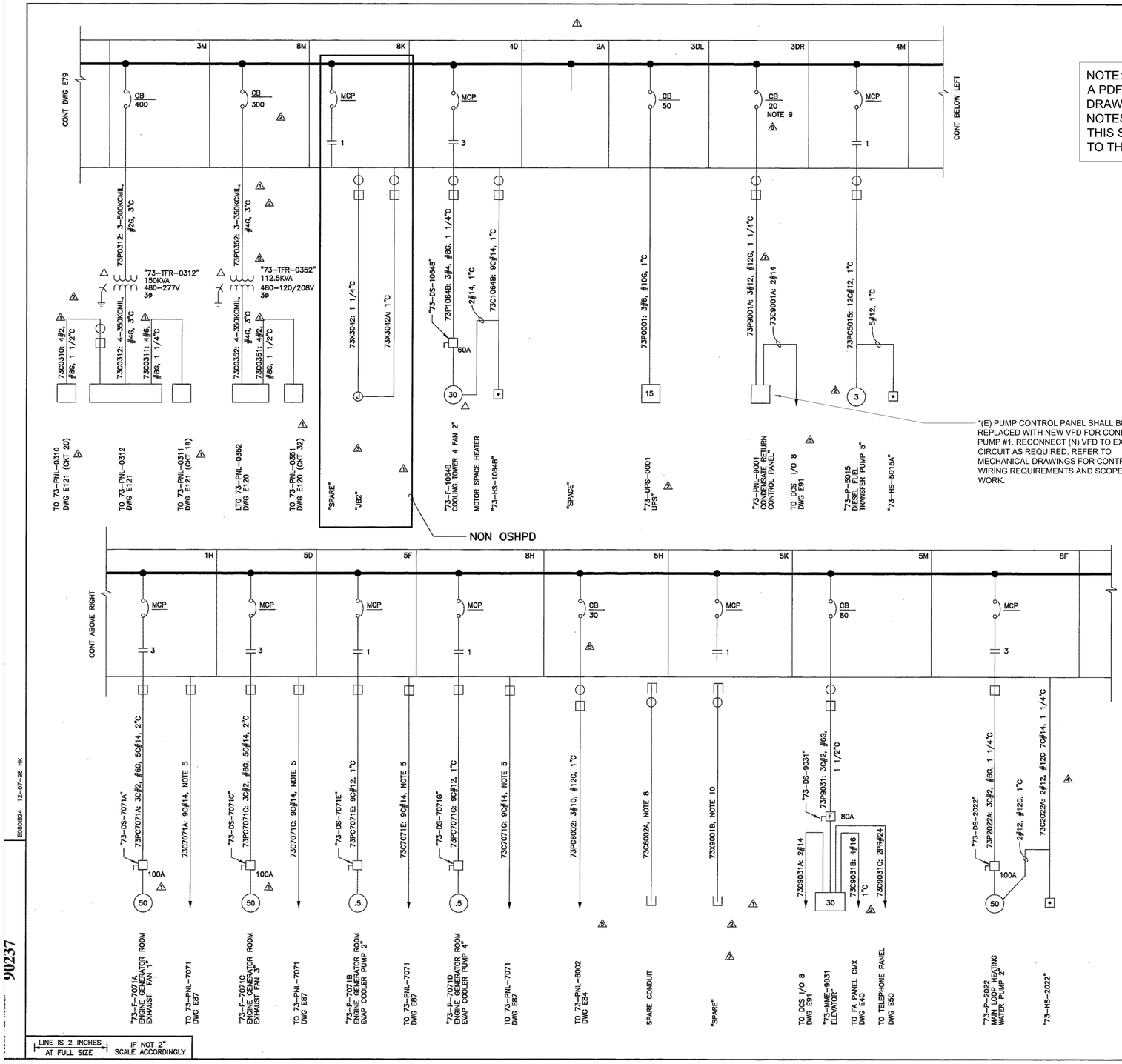

LINE IS 2 INCHES AT FULL SIZE — IF NOT 2" SCALE ACCORDINGLY

E080824 12-07-98 HK

90237

NOTE: THIS SHEET INCLUDES A PDF OF THE RECORD DRAWINGS. ONLY THE TWO NOTES WITH AN ASTEERIK ON THIS SHEET ARE APPLCAIBLE TO THIS PROJECT.

UCD UC DAVIS MEDICAL CENTER MC
2315 STOCKTON BLVD. – SACRAMENTO, CA. 95817

CONSULTANT: BROWN AND CALDWELL

ENGINEER | ARCHITECT

STATE FIRE MARSHALL

UCD FIRE DEPT | OSHPD

REVIEW & APPROVAL

DEPARTMENT(S)

RECORD DRAWING

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ACCOUNT NO. A/C934900
OSHPD NO. HS-940671-34
BUILDING BUILDING 73
FLOOR
PROJECT TITLE CENTRAL PLANT
SHEET TITLE 73MCC0233 SINGLE LINE 2

SCALE:	JOB NO.	DATE:	SHEET NO.
NO SCALE	1440	2/96	E80
UCDMC DRAWING NO.		REVISION	
COMPUTER FILE NUMBER E73080		SHEET	OF

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Office of Statewide Hospital Planning and Development
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DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

Mark Wong PE No. E 18416 ELECTRICAL STATE OF CALIFORNIA
12/20/2024

DESIGN PROFESSIONALS OF RECORD:

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(916)734-7024

WAME PROJECT #: 22-023

WESTON & ASSOCIATES MECHANICAL ENGINEERS

CONSULTANTS:

EDGE Sustainable Solutions
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Account No.: 9557960
HCAI No.: S241919-34-00
Bldg. No.: HCAI - BLD-0144, UCDH - 073
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL ONE LINE DIAGRAM

Arch.\Engr. ADAM DAVIS	FD&C Job No. JOB NO.	SHEET NO.
UCDMC Project Mgr. MG	Scale: AS NOTED	E5.01
Designed By: GORDON	Issue Date: 12/20/2024	
Drawn By: BRIANNA	ACAD Version: 2022	

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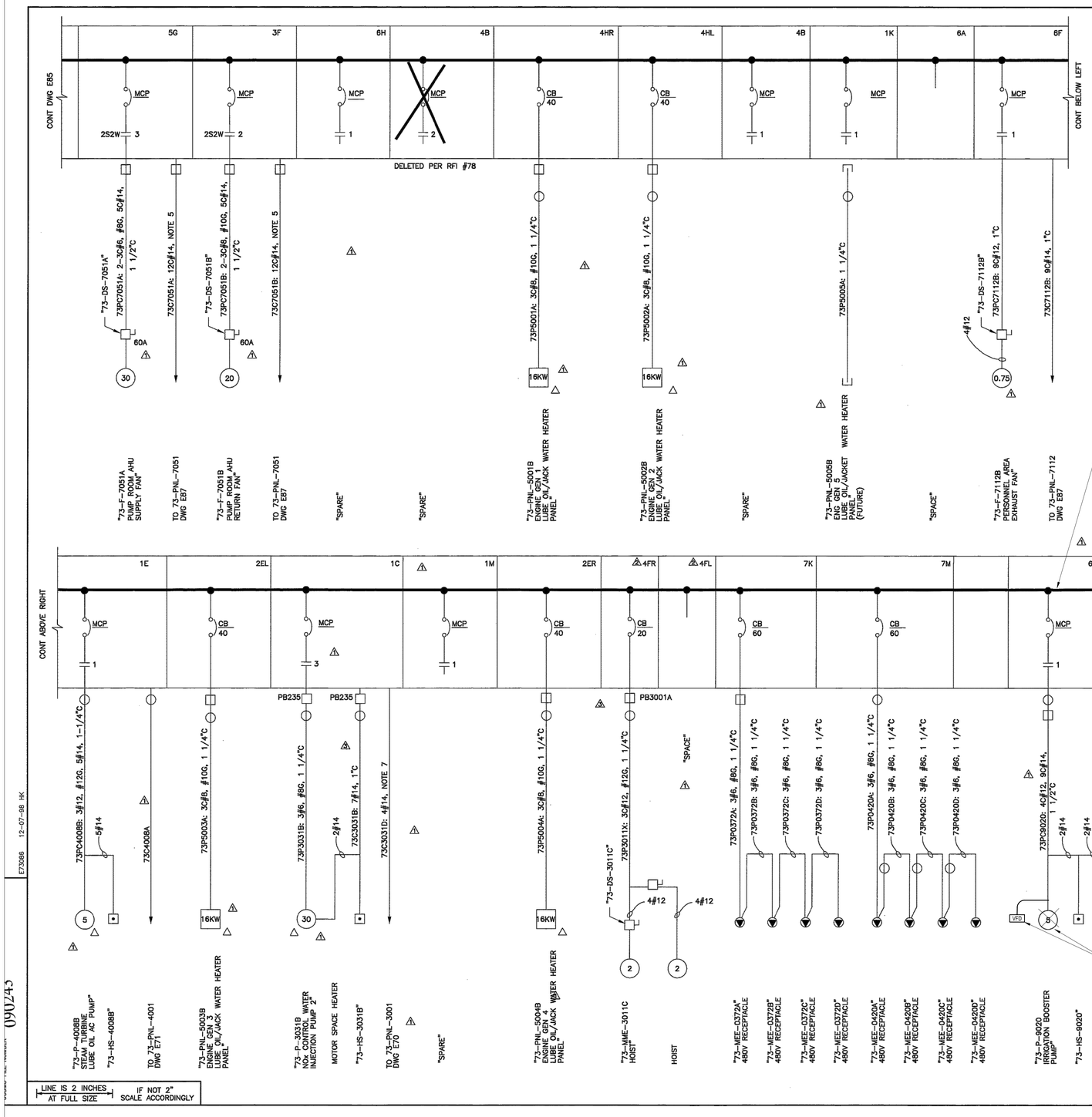

E73086 12-07-98 HK

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2315 STOCKTON BLVD. – SACRAMENTO, CA. 95817

CONSULTANT LOGO
BROWN AND CALDWELL

ENGINEER | ARCHITECT

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REVIEW & APPROVAL
DEPARTMENT(S)

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ACCOUNT NO.	A/C934900
CSHPH NO.	HS-940671-34
BUILDING	BUILDING 73
FLOOR	CENTRAL PLANT
PROJECT TITLE	73MCC0235 SINGLE LINE 2
SHEET TITLE	

SCALE:	JOB NO.	DATE:	SHEET NO.
NO SCALE	1440	2/96	E86
UCDMC DRAWING NO.		REVISION	
COMPUTER FILE NUMBER: E73086		SHEET	OF

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DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

DESIGN PROFESSIONALS OF RECORD:
Registered Professional Engineer — Mark Alan Weston — No. E 18416 — Electrical — State of California
12/20/2024

UCDAVIS HEALTH
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WESTON & ASSOCIATES MECHANICAL ENGINEERS

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Account No.: 9557960
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Bldg. No.: HCAI - BLD-0144, UCDH - 073
Floor/Wing: BASEMENT - 1ST FLOOR
Project: PROJECT #9557960 CUP REPAIR STEAM CONDENSATE SYSTEM SUPPORTS
Sheet Title: PARTIAL ONE LINE DIAGRAM

Arch.\Engr.	FD&C Job No.	SHEET NO.
ADAM DAVIS	JOB NO.	E5.02
UCDMC Project Mgr. MG	Scale: AS NOTED	
Designed By: GORDON	Issue Date: 12/20/2024	
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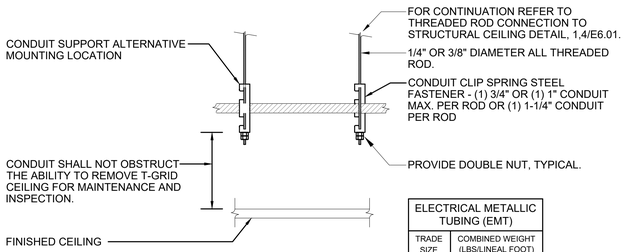
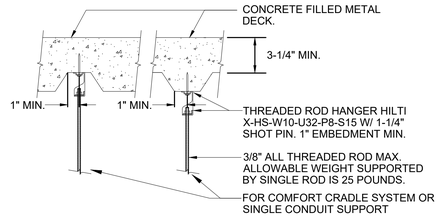


ELECTRICAL METALLIC TUBING (EMT)	
TRADE SIZE	COMBINED WEIGHT (LBS/LINEAL FOOT)
3/4"	0.84
1"	1.30
1-1/4"	2.12

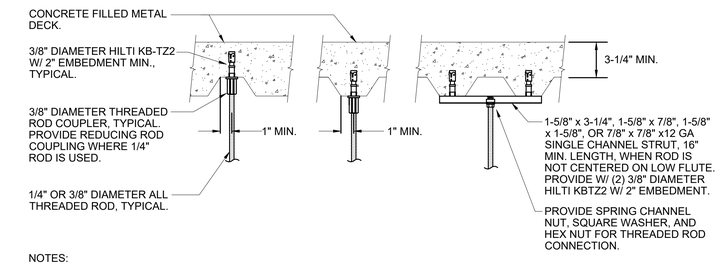
NOTES:
1. WEIGHT: LESS THAN 5LB/FT.
2. SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS. DO NOT EXCEED 3 FEET BETWEEN EACH RACEWAY TERMINATION AND MAXIMUM OF 10 FEET BETWEEN SUPPORTS.
3. PLACEMENT OF HANGER SHALL NOT OBSTRUCT THE REMOVAL AND/OR INSTALLATION OF CEILING MATERIALS WHETHER FOR CONSTRUCTION OR MAINTENANCE.

6 THREADED ROD CONDUIT SUPPORT DETAIL
SCALE: NONE



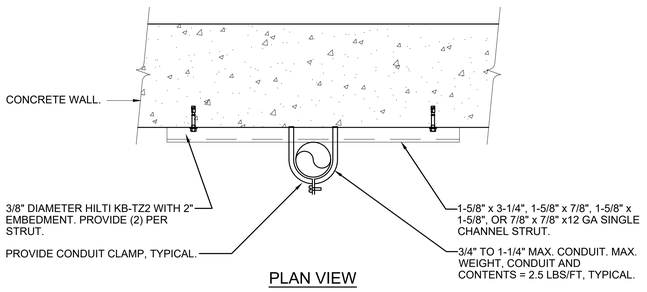
NOTES:
1. UPON INSTALLATION OF FASTENER INTO CONCRETE FILLED METAL DECK, CONTRACTOR TO PATCH/REPAIR DAMAGE TO EXISTING, SPRAY APPLIED FIREPROOFING, AS REQUIRED, TO RESTORE ORIGINAL FIREPROOFING THICKNESS AND FIRE RATING.
2. ANCHOR MAY BE PLACED AT HIGH OR LOW FLUTE, CENTER ANCHOR IN FLUTE.
3. TENSION TEST 50% OF CEILING CLIP ASSEMBLIES TO 180LBS. SEE "POST INSTALLED" NOTES AND "POST INSTALLED ANCHOR TESTING CRITERIA" NOTES ON STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. MAX. LENGTH OF ROD IS 60 INCHES.

4 3/8" THREADED ROD TO CONCRETE FILLED METAL DECK DETAIL
SCALE: NONE



NOTES:
1. VERIFY THAT CONCRETE OVER METAL DECK MUST COMPLY WITH FIGURES 5A TO 5C IN ICC ESR-4266.
2. UPON INSTALLATION OF FASTENER INTO CONCRETE FILLED METAL DECK, CONTRACTOR TO PATCH/REPAIR DAMAGE TO EXISTING, SPRAY APPLIED FIREPROOFING, AS REQUIRED, TO RESTORE ORIGINAL FIREPROOFING THICKNESS AND FIRE RATING.
3. ANCHOR MAY BE PLACED AT HIGH OR LOW FLUTE, CENTER ANCHOR IN FLUTE.
4. TORQUE TEST 50% OF EXPANSION ANCHORS TO 30FT-LBS. SEE "POST INSTALLED" NOTES AND "POST INSTALLED ANCHOR TESTING CRITERIA" NOTES ON STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS

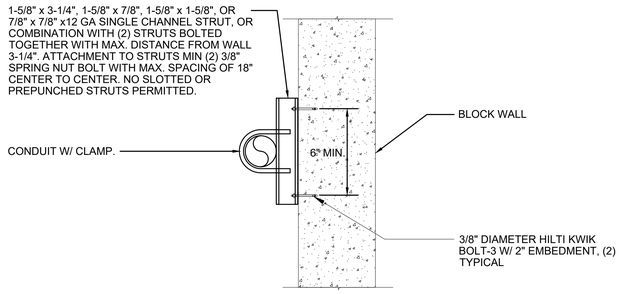
1 THREADED ROD TO CONCRETE FILLED METAL DECK - HILTI ANCHORS
SCALE: NONE



PLAN VIEW

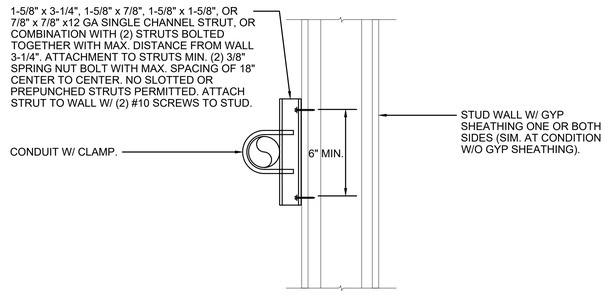
NOTES:
1. STRUT SUPPORTS SHALL BE LOCATED AT 10'-0" O.C., MAX.
2. NO SLOTTED OR PREPUNCHED STRUTS PERMITTED.

7 CONDUIT MOUNTING DETAIL - CONCRETE
SCALE: NONE



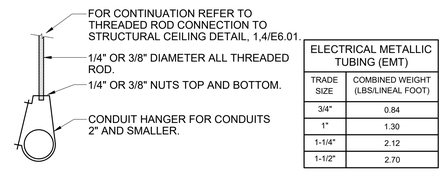
NOTES:
1. FOR 3/4" TO 2" CONDUIT, SUPPORTS @ 10'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 20LBS.

5 HORIZONTAL CONDUIT TO CONCRETE BLOCK WALL DETAIL
SCALE: NONE



NOTES:
1. FOR 3/4" TO 2" CONDUIT, SUPPORTS @ 10'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 20 LBS.

2 HORIZONTAL CONDUIT TO WALL DETAIL
SCALE: NONE



ELECTRICAL METALLIC TUBING (EMT)	
TRADE SIZE	COMBINED WEIGHT (LBS/LINEAL FOOT)
3/4"	0.84
1"	1.30
1-1/4"	2.12
1-1/2"	2.70

NOTES:
1. SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS. DO NOT EXCEED 3 FEET BETWEEN EACH RACEWAY TERMINATION AND MAXIMUM OF 10 FEET BETWEEN SUPPORTS.
2. PLACEMENT OF HANGER SHALL NOT OBSTRUCT THE REMOVAL AND/OR INSTALLATION OF CEILING MATERIALS WHETHER FOR CONSTRUCTION OR MAINTENANCE.

3 CONDUIT SUPPORT DETAIL
SCALE: NONE

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Sheet Title: DETAILS

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